

2000 ORION

Orion Bus Industries



ALEXANDRIA 1154A PARTS BOOK

As an aid, when ordering parts, an explanation of our parts book and numbering system is provided further on in this section.

The **Orion V** Parts book does not contain information on the engine or transmission except for parts supplied by Orion Bus Industries.

The engine and transmission parts book issued with your buses, are for information only. Any additional information required on these components should be obtained from engine or transmission manufacturer.

The engine model and serial numbers are located on information plates secured prominently on the engine. The transmission part and serial numbers are similarly located on the transmission.

HOW TO USE YOUR PARTS BOOK

IDENTIFY YOUR VEHICLE

The vehicle Model No. and V.I.N. (Vehicle identification Number or Chassis Number) is shown on the Federal Certificate Plate (Fig. 1) located on the bottom left of the Driver's seat.

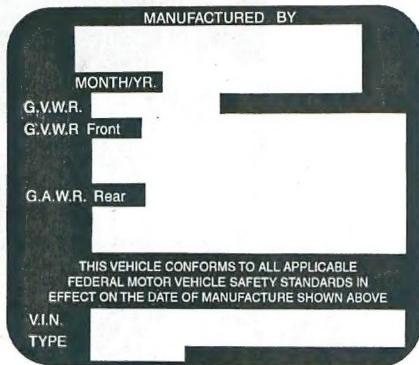


FIG. 1

Orion Bus Industries
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350 Hazelhurst Road
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Fax: (905) 403-8808

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Westmoreland
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WORL

Orion Bus Industries



VEHICLE IDENTIFICATION NUMBERS

REF	CUSTOMER NAME	VEHICLE IDENTIFICATION NUMBER
1.	ALEXANDRIA	1VH5E3H28Y6501374
2.	ALEXANDRIA	1VH5E3H2XY6501375
3.	ALEXANDRIA	1VH5E3H23Y6501377
4.	ALEXANDRIA	1VH5E3H25Y6501378
5.	ALEXANDRIA	1VH5E3H27Y6501379
6.	ALEXANDRIA	1VH5E3H23Y6501380
7.	ALEXANDRIA	1VH5E3H25Y6501381
8.	ALEXANDRIA	1VH5E3H27Y6501382
9.	ALEXANDRIA	1VH5E3H29Y6501383
10.	ALEXANDRIA	1VH5E3H20Y6501384



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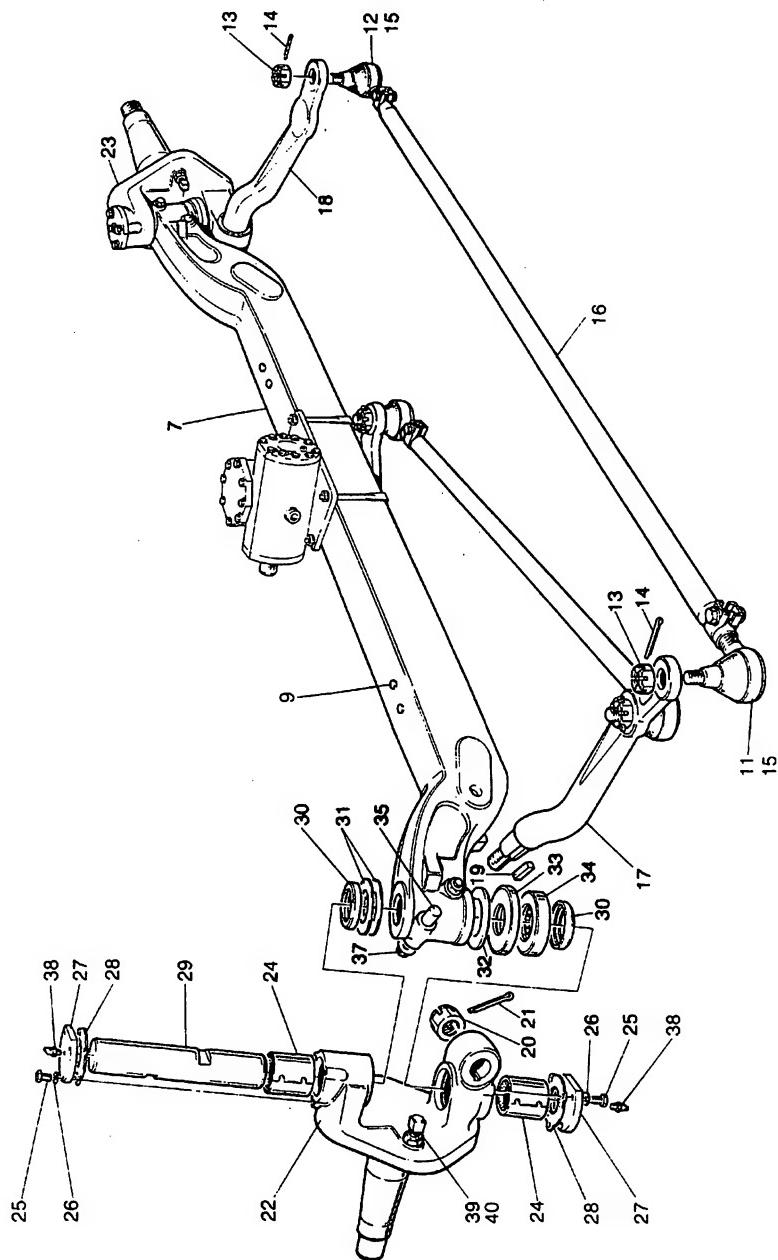
Front Axle

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Section 1: *FRONT AXLE*

AXLE ASSEMBLY, FRONT (17100 SERIES)



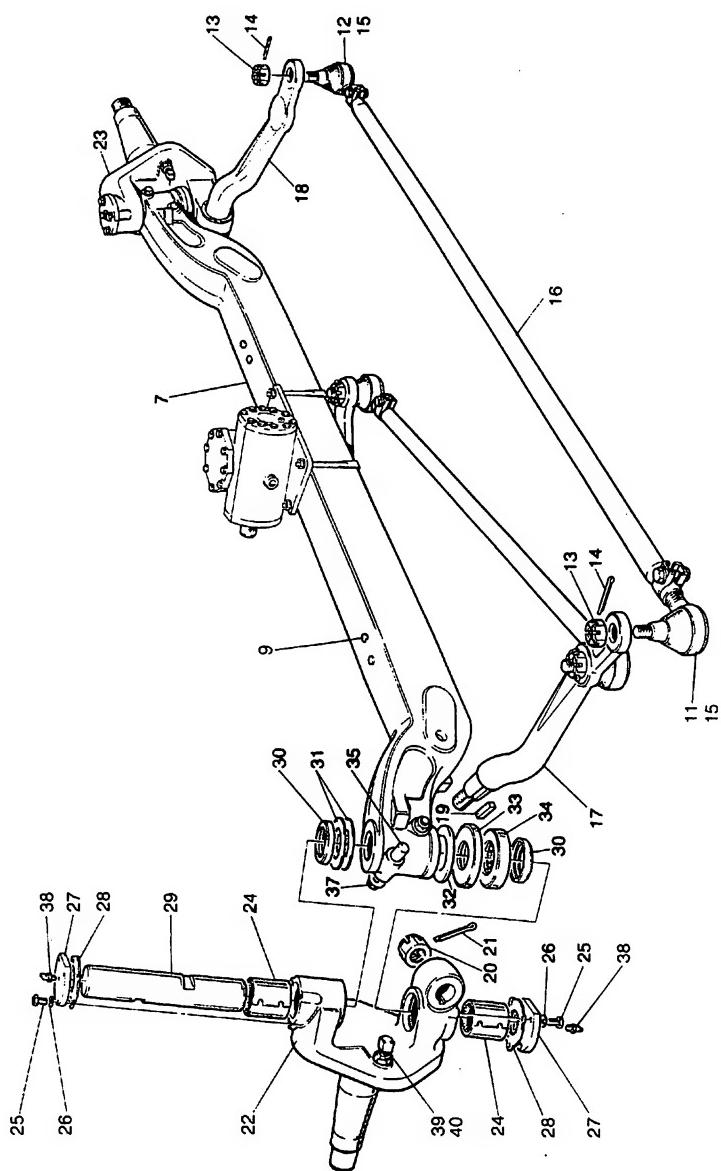
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AXLE ASSEMBLY, FRONT (17100 SERIES)

REF	REV	QTY	PART NO	DESCRIPTION
AXLE ASSEMBLY, FRONT (17100 SERIES)				
* 1		1	010102569	AXLE ASSEMBLY, FRONT 17100 SERIES
* 2		1	See page 1-7	HUB AND DRUM ASSEMBLY
* 3		1	See page 1-9	BRAKE, ROADSIDE/CURBSIDE
* 4		1	See page 1-9	BRAKE LININGS
* 5		1	See page 1-9	ADJUSTER, SLACK
* 6		1	E0102540AB	CHAMBER, BRAKE
* 6A		1	E0102540AC	CHAMBER, BRAKE
7		1	A0102504JJ	BEAM ASSEMBLY, AXLE
* 8		2	A0102504JA	PLUG, HEXAGONAL SOCKET 1/8"-27
9		2	A0102504JB	DOWEL
* 10		1	A0102507LL	CROSS ASSEMBLY, TUBE
11		1	A0102507LB	END ASSMBLY, RS
12		1	A0102507LB	END ASSMBLY, CS
13		1	A0102502CA	NUT, CASTLE 7/8"-14 THICK SLOT
14		1	BS-4314706	PIN, COTTER 1/8"X1-3/4"
15		1	BS-6800201	FITTING, GREASE
16		1	A0102507LA	TUBE, CROSS
17		1	A0102507KD	ARM, CROSS TUBE CS (1-1/8"-12)
18		1	A0102507KE	ARM, CROSS TUBE RS (1-1/8"-12)
19		2	A0102502AF	KEY
20		2	A0102502AG	NUT, CASTLE 1-1/8"-12
21		2	BS-4314908	PIN, COTTER 3/16"X2-1/4"
22		1	A0102507FF	KNUCKLE ASSEMBLY, STEERING RS
23		1	A0102507GG	KNUCKLE ASSEMBLY, STEERING CS
24		2	A0102513BA	BUSHING ASSEMBLY, EASY STEER
25		12	BS-4122136	BOLT 5/16"-18 UNCX1 GR8
26		12	A0102502EC	WASHER, FLAT
27		4	A0102502ED	CAP, KNUCKLE
28		4	A0102502FF	GASKET
29		2	A0102502EG	PIN, KNUCKLE
30		4	A0102502EH	SEAL ASSEMBLY, UPPER/LOWER
31		AR	A0102504KC	SHIM, FRONT AXLE 0.005
* 31A		AR	A0102504KD	SHIM, FRONT AXLE 0.010
32		AR	A0102504KE	SHIM, FRONT AXLE 0.015
33		2	A0102504KF	SEAL ASSEMBLY, LOWER
34		2	A0102504KG	BEARING, THRUST
35		2	A0102502EN	KEY, DRAW KNUCKLE UPPER 2.812"

* Indicates item not shown on illustration

AXLE ASSEMBLY, FRONT (17100 SERIES)



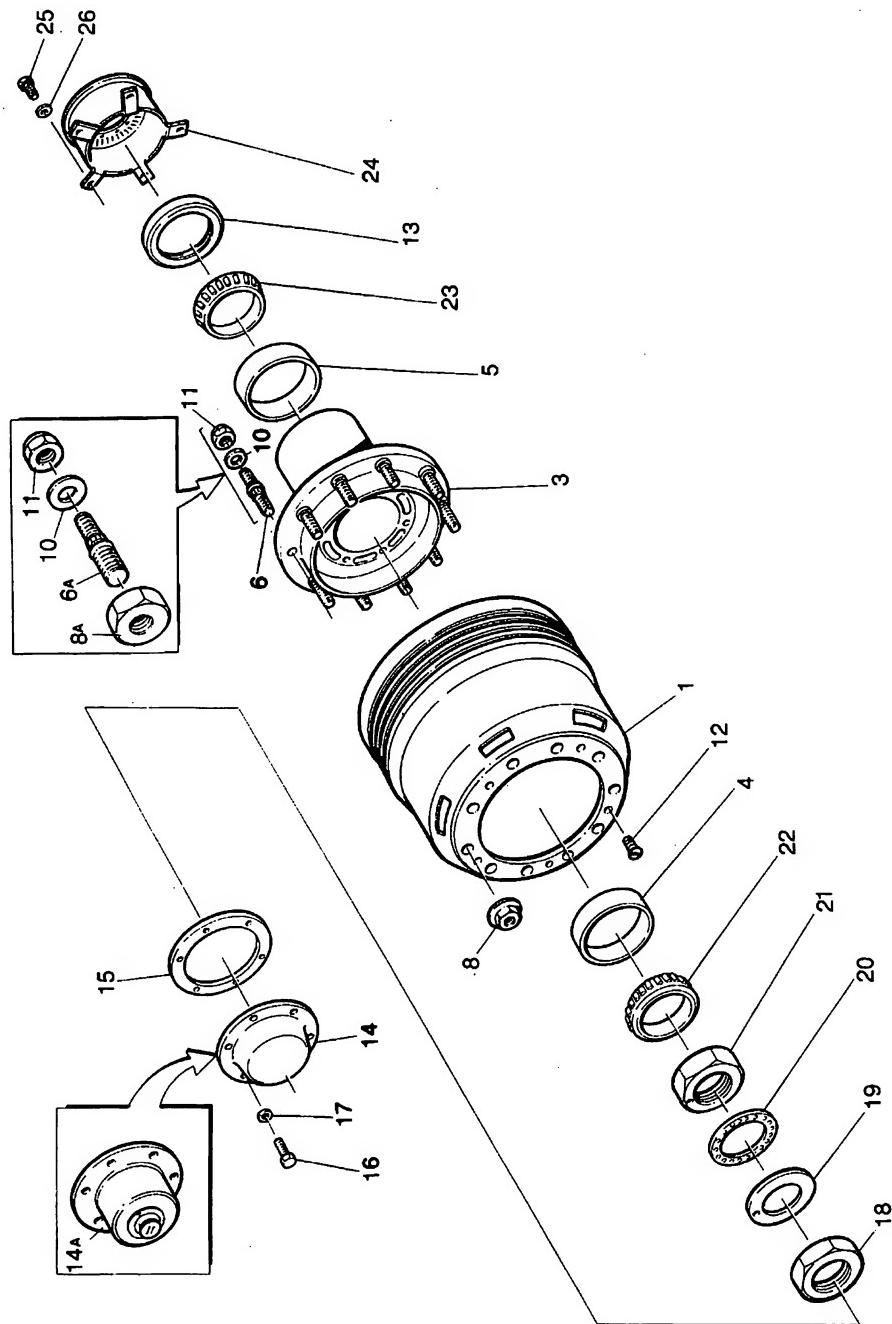
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AXLE ASSEMBLY, FRONT (17100 SERIES)

REF	REV	QTY	PART NO	DESCRIPTION
* 36		2	A0102502EP	KEY, DRAW KNUCKLE LOWER 3.875"
37		4	A0102502ER	NUT, DRAW KEY 3/8"-24 UNF
38		4	BS-6800206	FITTING, GREASE 1/8"-27 90°
39		2	A0102504KH	SCREW, STOP 1/2"-20 UNF X1-1/2"
40		2	A0102502ET	NUT, HEXAGONAL 1/2" 20 UNF
* 41		1	A0102506ZA	REPAIR KIT, STEERING KNUCKLE
* 42		1	A0102506AB	CLIP, ABS

* Indicates item not shown on illustration

HUB AND DRUM ASSEMBLY (17100 SERIES)



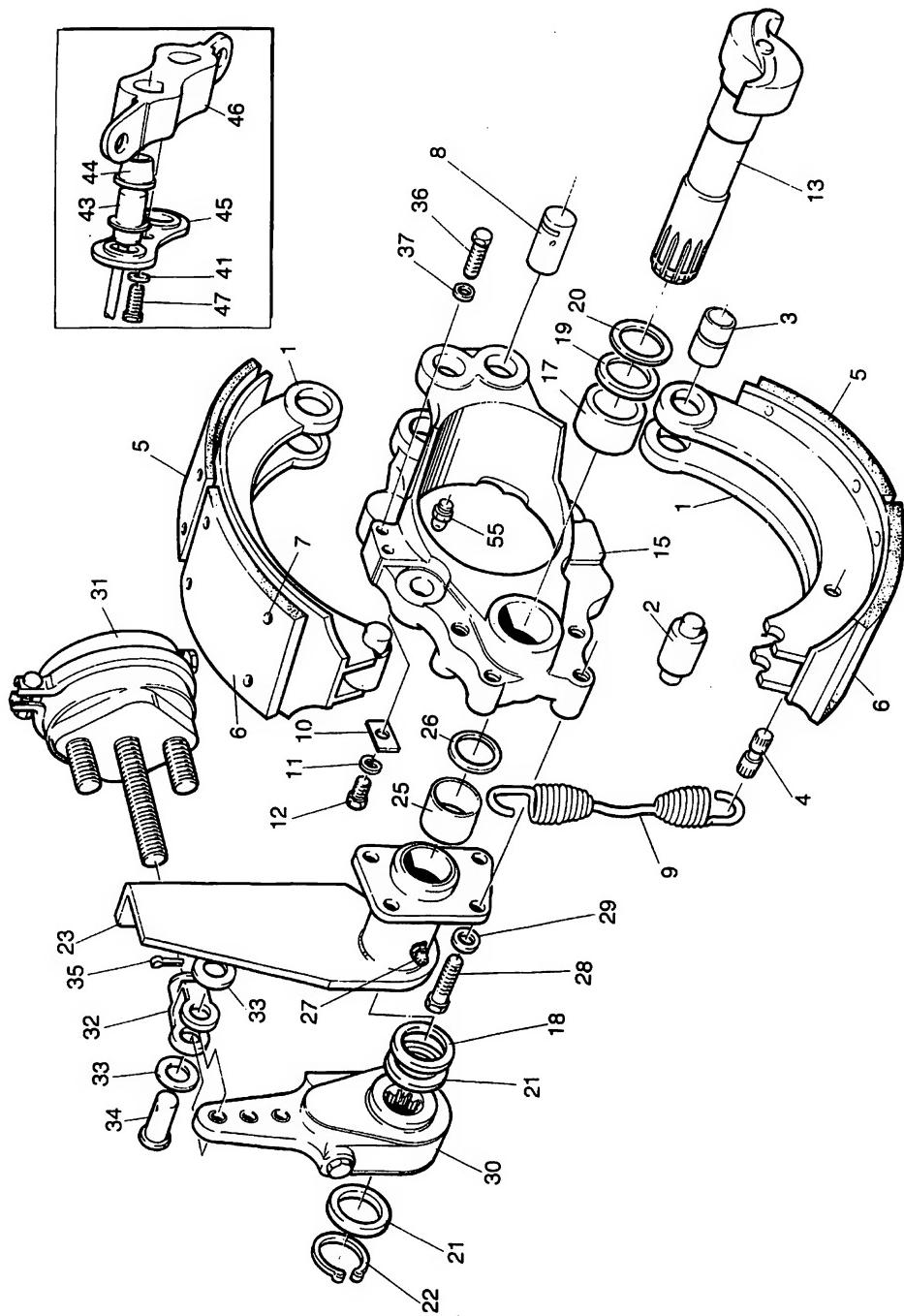
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HUB AND DRUM ASSEMBLY (17100 SERIES)

REF	REV	QTY	PART NO	DESCRIPTION
HUB AND DRUM ASSEMBLY (17100 SERIES)				
1		1	A0102507BA	.DRUM, BRAKE CS
*2		1	A0102575AF	.DRUM, BRAKE RS
3		2	A0102555AB	.HUB AND STUD ASSEMBLY RS/CS (HUB PILOT)(ALUMINUM)
4		1	A0102507DC	..CUP, BEARING OUTER
5		1	A0102507DB	..CUP, BEARING INNER
6		10	A0102507SD	.STUD, CS (STUD PILOT)
6A				NOT APPLICABLE
*7		10	A0102507SE	.STUD, RS (STUD PILOT)
8		10	A0102502GB	.NUT, STUD 1-1/8"-16 CS
8A				NOT APPLICABLE
*9		10	A0102502GC	.NUT, STUD 1-1/8"-16 RS
10		20	A0102507CE	.WASHER, FLAT
11		20	BS-4200614	.NUT, LOCK 7/8"-14
12		10	A0102507CD	.SCREW, 1/2"-13 UNC
13		2	A0102507AG	.SEAL ASSEMBLY, GREASE/OIL
14				NOT APPLICABLE
14A		2	A0102512AB	.CAP ASSEMBLY, HUB
15		2	A0102512AC	.GASKET, HUB CAP
16		12	A0102507AL	.BOLT, 3/8"-16 UNCX7/8" GRADE 8
17		12	A0102530AD	.WASHER, FLAT HUB CAP
18		2	A0102507AF	.NUT, JAM WHEEL BEARING OUTER
19		2	A0102507AH	.WASHER, FLAT
20		2	A0102507AE	.RING, LOCK
21		2	A0102507AD	.NUT, JAM WHEEL BEARING INNER
22		2	A0102507AC	.CONE, BEARING OUTER WHEEL
23		2	A0102507AB	.CONE, BEARING INNER WHEEL
24				NOT APPLICABLE
25				NOT APPLICABLE
26				NOT APPLICABLE

* Indicates item not shown on illustration

BRAKE, FRONT 14 1/2" (17100 SERIES)

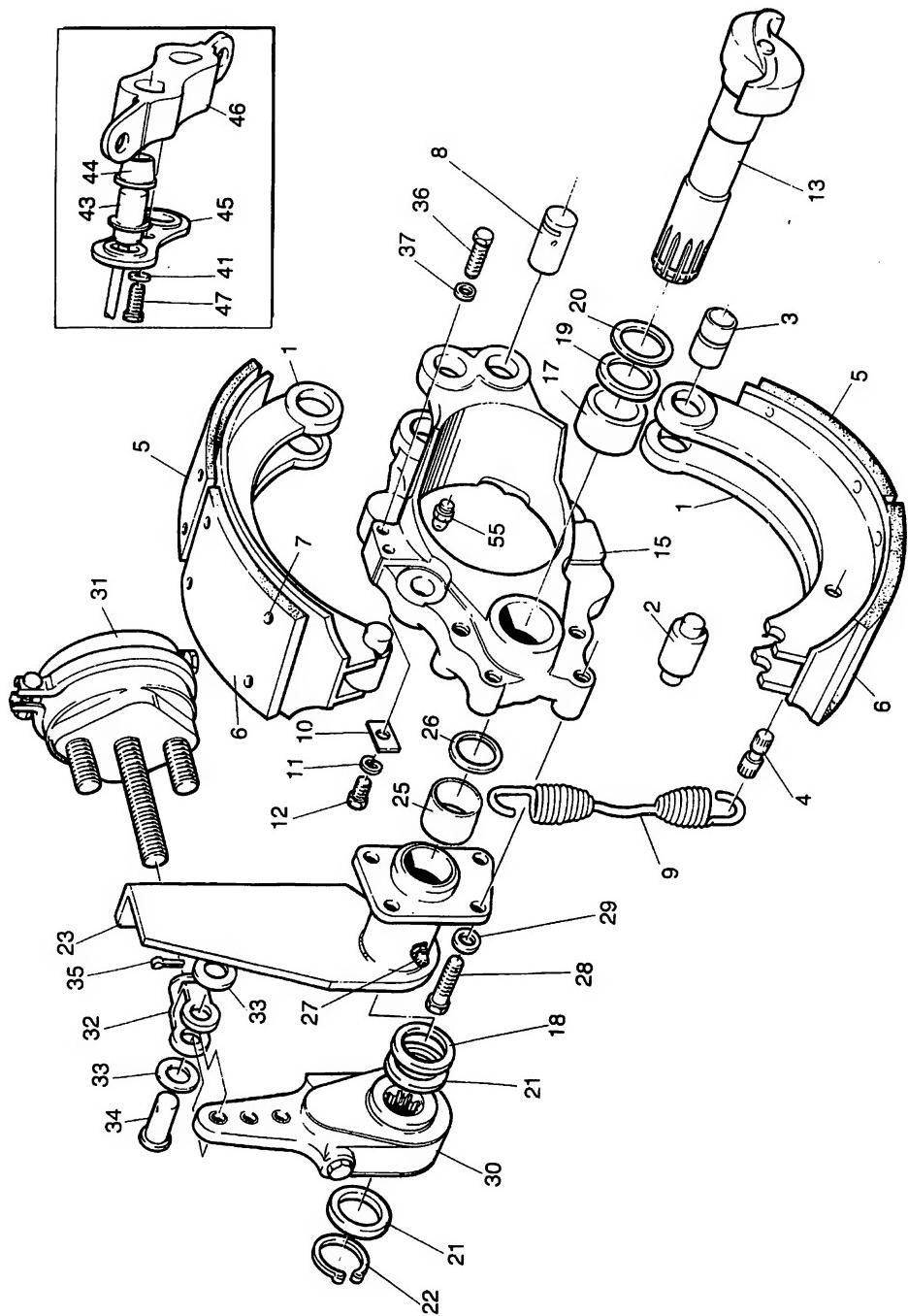


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BRAKE, FRONT 14 1/2" (17100 SERIES)

REF	REV	QTY	PART NO	DESCRIPTION
				BRAKE, FRONT 14 1/2" (17100 SERIES)
1		4	A0102507MA	SHOE BRAKE ASSEMBLY
2		1	E0102507MC	.ROLLER, BRAKE SHOE
*2A		1	A0102507SA	.ROLLER, (1/8 INCH OVERSIZE)
*2B		1	A0102507SB	.ROLLER, (1/4 INCH OVERSIZE)
*2C		1	A0102507SC	.ROLLER, (1/2 INCH OVERSIZE)
3		1	A0102507MG	BUSHING, BRAKE SHOE
4		1	A0102507MD	PIN, RETURN SPRING
5		4	See page 2-3	LINING, BRAKE (ANCHOR END)
6		4	See page 2-3	LINING, BRAKE (CAM END)
7		1	A0102507RA	BOLT BRAKE KIT
8		4	A0102507MH	PIN, ANCHOR BRAKE SHOE
9		4	A0102507MB	SPRING, BRAKE SHOE RETURN
10		2	A0102507MF	.WASHER, FLAT (STRAP)
11		2	BS-4520121	.WASHER, LOCK 5/16 (ZINC PLATED)
12		2	BS-4121135	BOLT, 5/16" 18 UNC X 7/8 GR5
13		1	A0102507MN	CAMSHAFT, RS (1-1/2 10 SPLINE)
*14		1	A0102507ML	CAMSHAFT, CS (1-1/2 10 SPLINE)
15		1	E0102540EB	SPIDER ASSEMBLY, RS
*16		1	E0102540EA	SPIDER ASSEMBLY, CS
17		1	A0102502NE	.BUSHING, CAMSHAFT BRONZE
18		4	E0102540AB	.SEAL, GREASE
19				NOT APPLICABLE
20	AR		A0202519MJ	WASHER, SPACING .063
*20A	AR		A0102507MP	WASHER, SPACING .031
21	AR		A0102502PF	WASHER, SPACING .104
*21A	AR		A0102506AC	WASHER, SPACING .054
22		2	A0102507MW	.RING, LOCK CAMSHAFT
23		1	A0102506BB	BRACKET ASSEMBLY, RS BRAKE CHAMBER
*24		1	A0102506CC	BRACKET ASSEMBLY, CS BRAKE CHAMBER
25		1	A0102502NE	.BUSHING, (BRONZE)
26		1	A0102502NB	.SEAL ASSEMBLY, BRACKET
27		2	BS-6800201	FITTING, GREASE 1/8 27
28		8	BS-4122198	BOLT, 1/2" 13 UNC X 1-1/2 GR8
29		8	A0102502PD	WASHER, FLAT
30		2	A0102507MY	ADJUSTER, SLACK (10 SPLINE)(HALDEX AUTO)
31		2	E0102540AB	CHAMBER, BRAKE RS
*31A		2	E0102540AC	CHAMBER, BRAKE CS
<i>* Indicates item not shown on illustration</i>				

BRAKE, FRONT 14 1/2" (17100 SERIES)



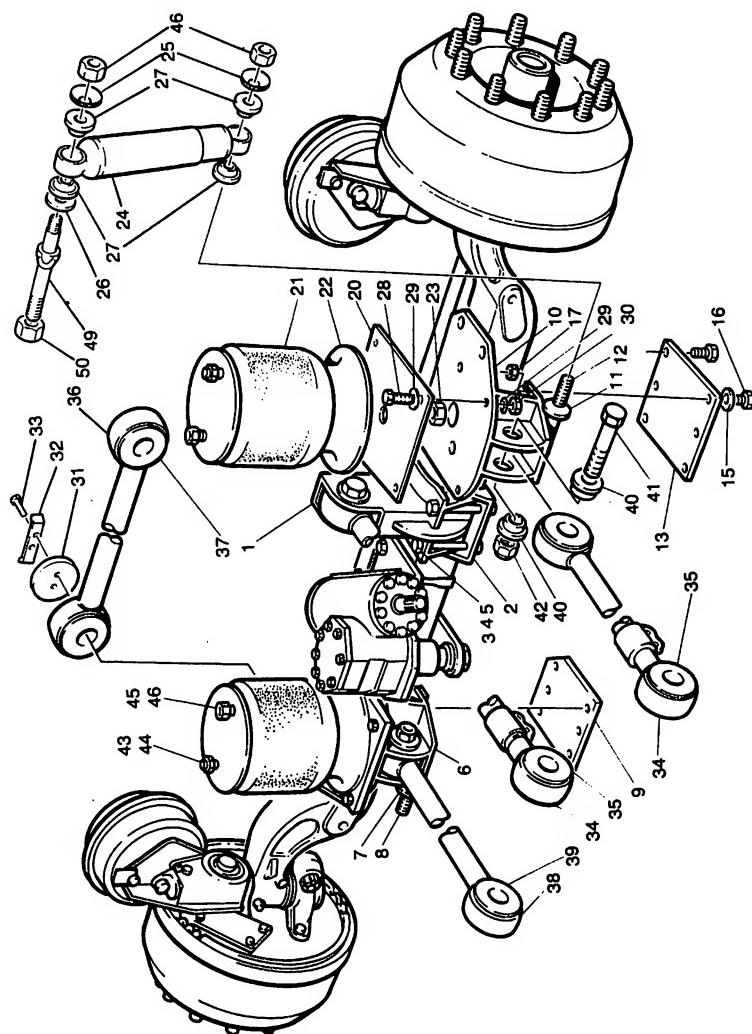
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BRAKE, FRONT 14 1/2" (17100 SERIES)

REF	REV	QTY	PART NO	DESCRIPTION
32		2	A0102513AB	YOKE, PUSH ROD
33		4	A0102513AC	WASHER, FLAT
34		2	A0102502SL	PIN, CLEVIS
35		2	BS-4314703	PIN, COTTER 1/8 X 1
36		4	A0202506AD	BOLT, LOCKING 7/8 9 UNC X 2 GR8
37		4	A0102506AE	WASHER, FLAT
* 38		4	A0102506AF	DOWEL
* 39		2	A0102506AG	STRAP ASSEMBLY, (HALDEX SLACK ONLY)
* 40		2	A0102569AC	SENSOR ASSEMBLY, ABS
41		1	A0102530AD	.WASHER, FLAT
* 42		1	A0102530CA	.WASHER, FLAT
43				NOT APPLICABLE
44		1	A0102530CB	.COLLET
45		1	A0102530CD	.RETAINER
46		1	A0102530CE	.HOUSING, SENSOR
47		1	BS-4122156	.BOLT, 3/8" 16 UNC X 1 GR8
* 48		1	A0102529AB	BRACKET, SKID TROL HOUSING
* 49		2	BS-4122156	BOLT, 3/8" 16 UNC X 1 GR8
* 50		2	BS-4122161	BOLT, 3/8" 16 UNC X 2-1/4 GR8
* 51		8	A0102530AD	WASHER, FLAT
* 52		4	BS-4200506	NUT, LOCK 3/8 16 UNC
* 53		2	A0102529AC	CLIP
* 54		1	A0102529AD	CLAMP
55		2	BS-6800201	FITTING, GREASE 1/8 27
* 56				NOT APPLICABLE
* 57		AR	E0102540AB	SPACER
* 58		1	E0102530AB	EXCITER, (TONE WHEEL) ABS
* 59		2	F0102518BF	CLIP, ABS
* 60		4	E0102541AB	TIE, CABLE SENSOR ABS

* Indicates item not shown on illustration

SUSPENSION, FRONT AXLE(17100 SERIES)



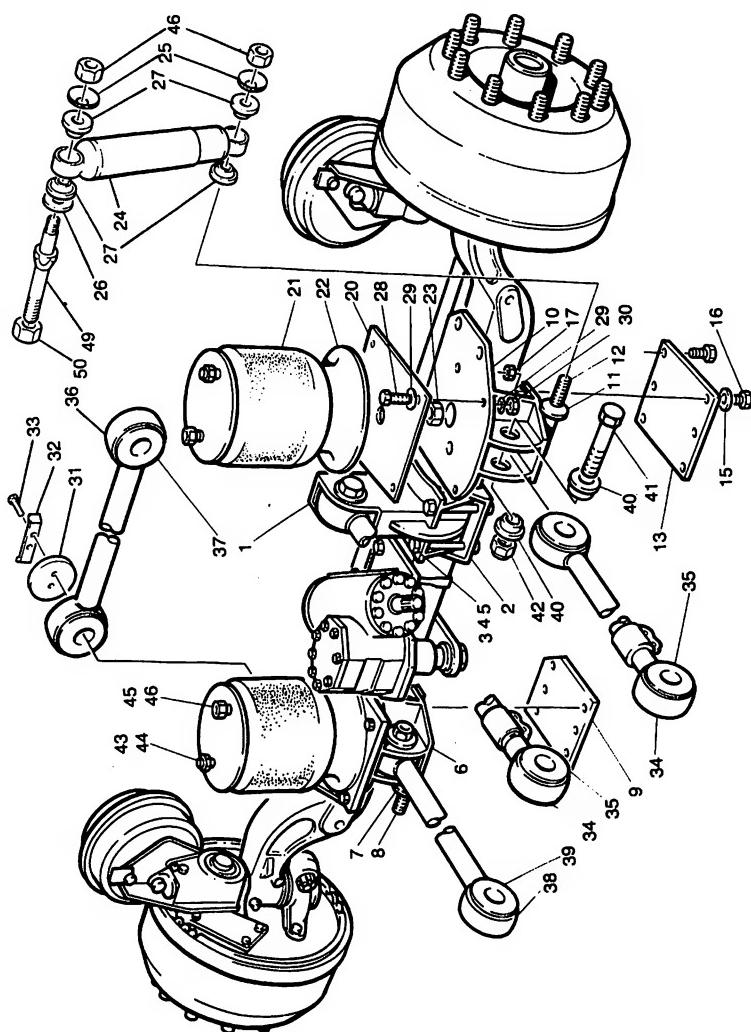
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SUSPENSION, FRONT AXLE(17100 SERIES)

REF	REV	QTY	PART NO	DESCRIPTION
SUSPENSION, FRONT AXLE(17100 SERIES)				
1		1	010104404	BRACKET, WELDMENT UPPER CASTER ROD MOUNTING
2		1	050104403	BRACKET, WELDMENT LOWER CASTER ROD MOUNTING
3		4	BS-4132580	SCREW, HEX HEAD 5/8"-18 UNF X 7" GR8
4		4	BS-4202423	LOCKNUT, NYLON 5/8"-18 UNF GR 8
5		4	BS-4500126	WASHER, FLAT 5/8"
6		1	010105411	BRACKET, WELDMENT CS AXLE MOUNTING
* 6A		1	050105420	BRACKET, WELDMENT CS AXLE MOUNTING
* 6B		4	050101018	GUSSET, AXLE MOUNTING PLATE (WELDED TO ITEM #6)
7		1	010134003	FLANGE, INNER
8		1	011421052	STUD, SHOCK
9		1	010105401	PLATE, LOWER NOTCHED CS
10		1	050106411	BRACKET, WELDMENT AXLE MOUNTING
* 10A		4	050101018	GUSSET, AXLE MOUNTING PLATE (WELDED TO ITEM #10)
11		1	010134003	FLANGE, INNER
12		1	011421052	STUD, SHOCK
13	*	1	010106401	PLATE, LOWER CS
14		2	010101006	DOWEL, AXLE MOUNTING CENTRE
15		12	BS-4500214	WASHER, FLAT 1/2 HARDENED
16		12	BS-4132198	SCREW, HEX HEAD (1/2-20 UNF X 1-1/2 GR8)
17		12	BS-4202421	NUT, NYLOCK (1/2 NF GR8)
* 18		2	BS-6800201	FITTING, GREASE 1/8"-27
* 19		2	BS-6800204	FITTING, GREASE 1/8"-27 X 45°
20		2	010105004	PLATE, MOUNTING AIR BAG
21		2	010132404	SPRING ASSEMBLY, AIR
22		1	A0132404AB	BASE, PISTON COMPOSITE
23		2	BS-4202910	NUT, NYLOCK 3/4-10 LOW PROFILE
24		2	050134512	SHOCK ABSORBER, FRONT 2-1/16"
25		4	010134002	FLANGE, OUTER
26		2	010134003	FLANGE, INNER
27		8	010134001	BUSHING, RUBBER
28		8	BS-4142259	SCREW, HEX HEAD 3/8-24 UNF X 2 GR8
29		16	BS-4500122	WASHER, FLAT 3/8 CDZN PL
30		8	BS-4202419	LOCKNUT, NYLON 3/8-24 UNF GR8
31		1	010133002	PLATE, PRESSURE
32		1	010133003	PLATE, LOCK STRIP PRESSURE
33		2	BS-4132259	SCREW, HEX HEAD 3/4-16 UNF X 1-3/4 GR8
34		2	050133503	ROD, RADIUS FRONT 24" ADJUSTABLE
35		2	A0133501AB	BUSHING
36		1	050233502	ROD, RADIUS FRONT 29-3/4" FIXED TRANSVERSE
37		2	A0133502AB	BUSHING

* Indicates item not shown on illustration

SUSPENSION, FRONT AXLE(17100 SERIES)



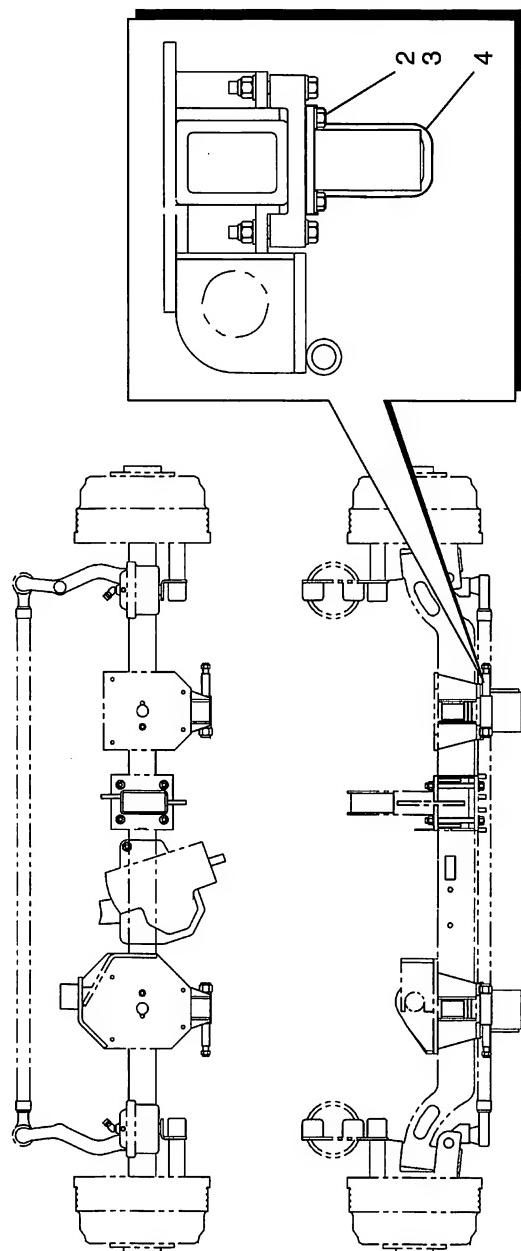
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SUSPENSION, FRONT AXLE(17100 SERIES)

REF	REV	QTY	PART NO	DESCRIPTION
38		1	010133503	ROD, RADIUS FRONT 29" FIXED
39		2	A0133501AB	BUSHING
40		14	010133007	BUSHING, FLANGED EXTENDED
41		7	BS-4132311	SCREW, HEX HEAD 1-14 UNF X 5 GR8
42		7	BS-4202426	LOCKNUT, NYLON 1-14 UNF
43		2	BS-4520124	WASHER, LOCK 1/2" ZN PL STL
44		2	BS-4202308	LOCKNUT, NYLON 1/2 NC
45		2	BS-4530117	WASHER, EXSTAR 3/4
46		6	BS-4202424	LOCKNUT, NYLON 3/4-16 UNF
* 47		2	BS-6802102	NIPPLE, GREASE RELIEF
* 48		1	010104021	BRACKET, LEVEL VALVE
49		2	010134006	STUD, SHOCK ABSORBER UPPER
50		2	BS-4202426	LOCKNUT, NYLON 1-14 UNF
* 51		1	050106025	BLOCK, BOTTOM CS
* 52		1	050106023	BLOCK, BOTTOM RS

* Indicates item not shown on illustration

PAD, JACKING STANDARD



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PAD, JACKING STANDARD

REF	REV	QTY	PART NO	DESCRIPTION
			SK1900-0028	PAD, JACKING STANDARD
* 1			See Page 1-3	AXLE ASSEMBLY, FRONT
2		8	BS-4132156	SCREW, HX HD 3/8NF X 1 G8
3		8	BS-4521122	LOCKWASHER 3/8 SS
4		2	050101409	PAD, JACKING WELDMENT, ASSEMBLY

* Indicates item not shown on illustration

FRONT AXLE

02.

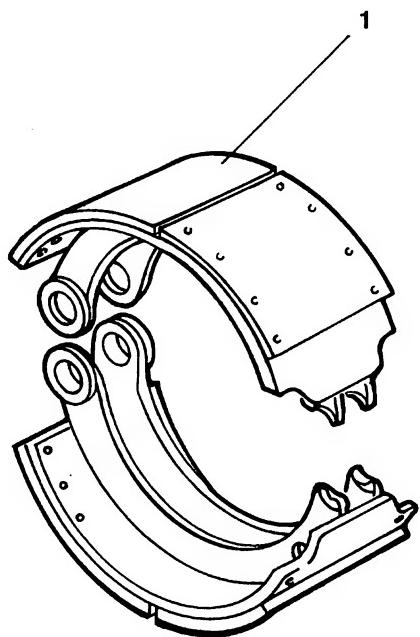
Rear Axle

Orion Bus Industries

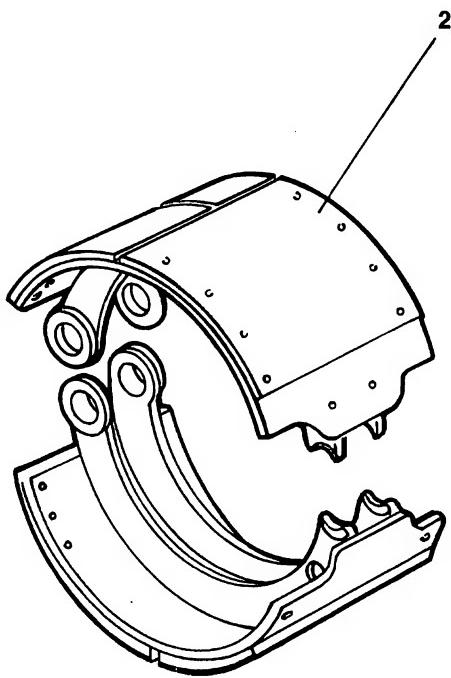


Section 2: *REAR AXLE*

LINING, BRAKE 14-1/2" "W" SERIES



Front Axle



Rear Axle

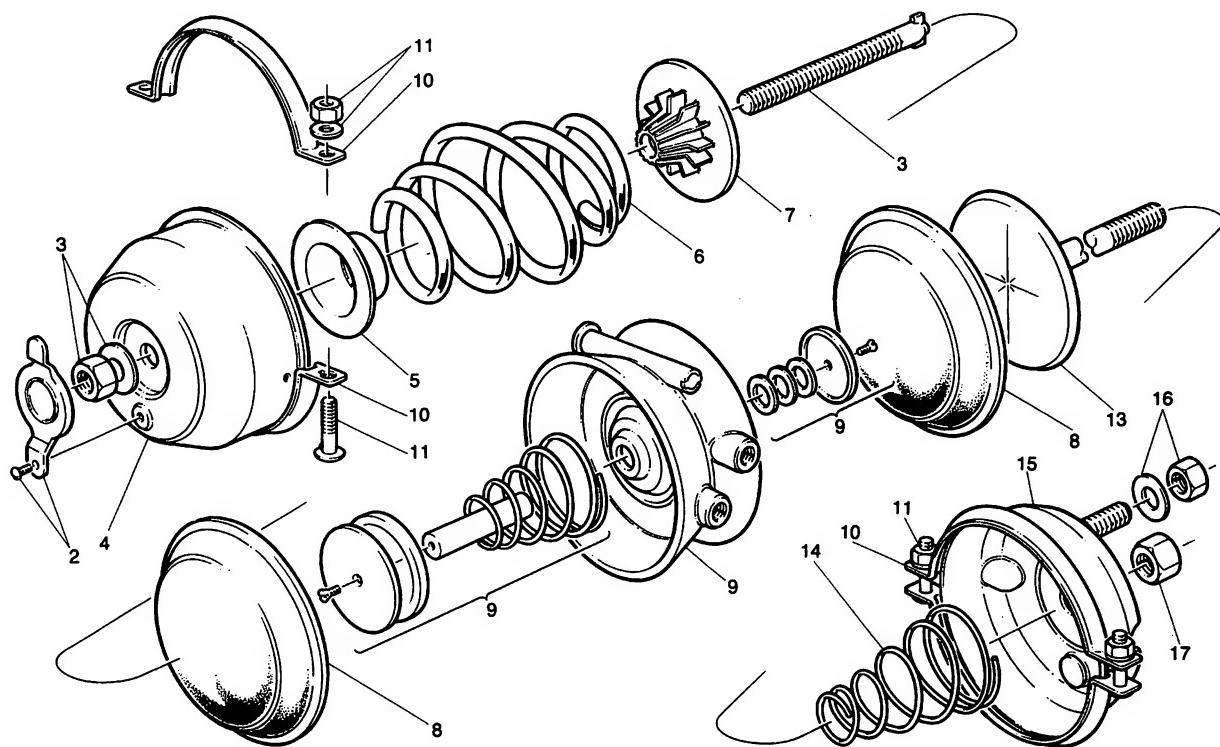
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LINING, BRAKE 14-1/2" "W" SERIES

REF	REV	QTY	PART NO	DESCRIPTION
LINING, BRAKE 14-1/2" "W" SERIES				
1		1	A0102507RD	LINING, SET 6 INCH FRONT AXLE, STANDARD
* 1A		1	A0102507RB	LINING, SET 6 INCH FRONT AXLE, 1ST OVERSIZE
* 1B		1	A0102507RC	LINING, SET 6 INCH FRONT AXLE, 2ND OVERSIZE
2		1	A0202519PC	LINING, SET 10 INCH REAR AXLE, STANDARD
* 2A		1	A0202519PD	LINING, SET 10 INCH REAR AXLE, 1ST OVERSIZE
* 2B		1	A0202519PE	LINING, SET 10 INCH REAR AXLE, 2ND OVERSIZE

* Indicates item not shown on illustration

CHAMBER, BRAKE MGM 3636

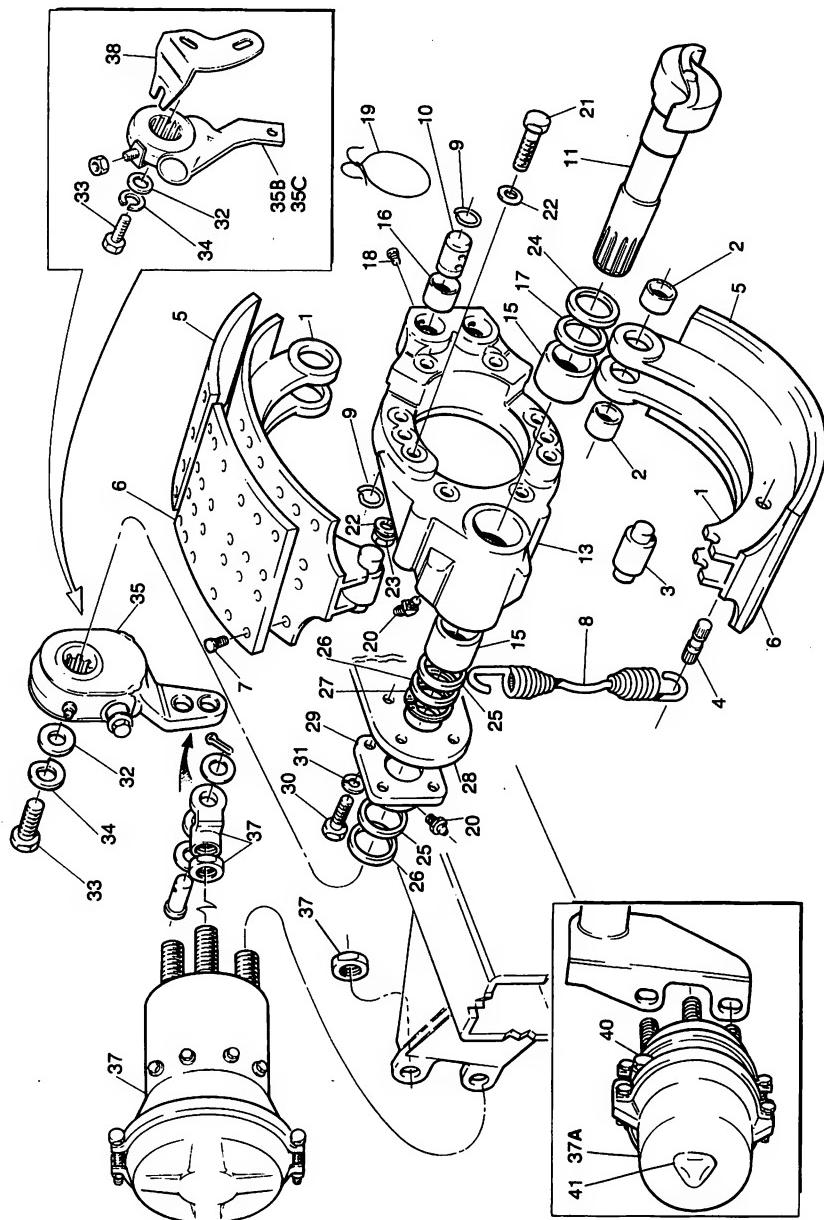


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CHAMBER, BRAKE MGM 3636

REF	REV	QTY	PART NO	DESCRIPTION
				CHAMBER, BRAKE MGM 3636
* 1		1	050211505	CHAMBER, BRAKE MGM TYPE 3636
2		1	A0212511AB	CAP, END
3		1	A0202504ZE	BOLT, RELEASE KIT
4		1	NPN	HEAD
5		1	NPN	GUIDE
6		1	NPN	SPRING
7		1	NPN	PISTON
8		2	A0212511AC	DIAPHRAGM
9		1	NPN	FLANGE ASSEMBLY, CASE
10		2	A0212511AD	RING ASSEMBLY, CLAMP (2 PIECE)
11		1	A0202504ZH	NUT AND BOLT KIT
* 12		1	A0212511AE	CHAMBER KIT, NON-PRESSURE
13		1	A0212511AF	ROD ASSEMBLY, PISTON
14		1	A0212511AG	SPRING, RETURN
15		1	A0212511AH	CHAMBER ASSEMBLY, NON PRESSURE
16		1	A0202504ZJ	NUT AND WASHER KIT
17		1	BS-4203210	NUT JAM 5/8 18 UNF GR5 ZN PL
* 18		1	A0212511AJ	BREATHER TUBE KIT
* 19		1	E0211505AB	YOKE ASSEMBLY, TRT 3636
* 20		1	BS-6000063	BUSHING, BRASS 3/8"P X 1/4"P
<i>* Indicates item not shown on illustration</i>				

BRAKE, REAR 14 1/2" (61152 SERIES)



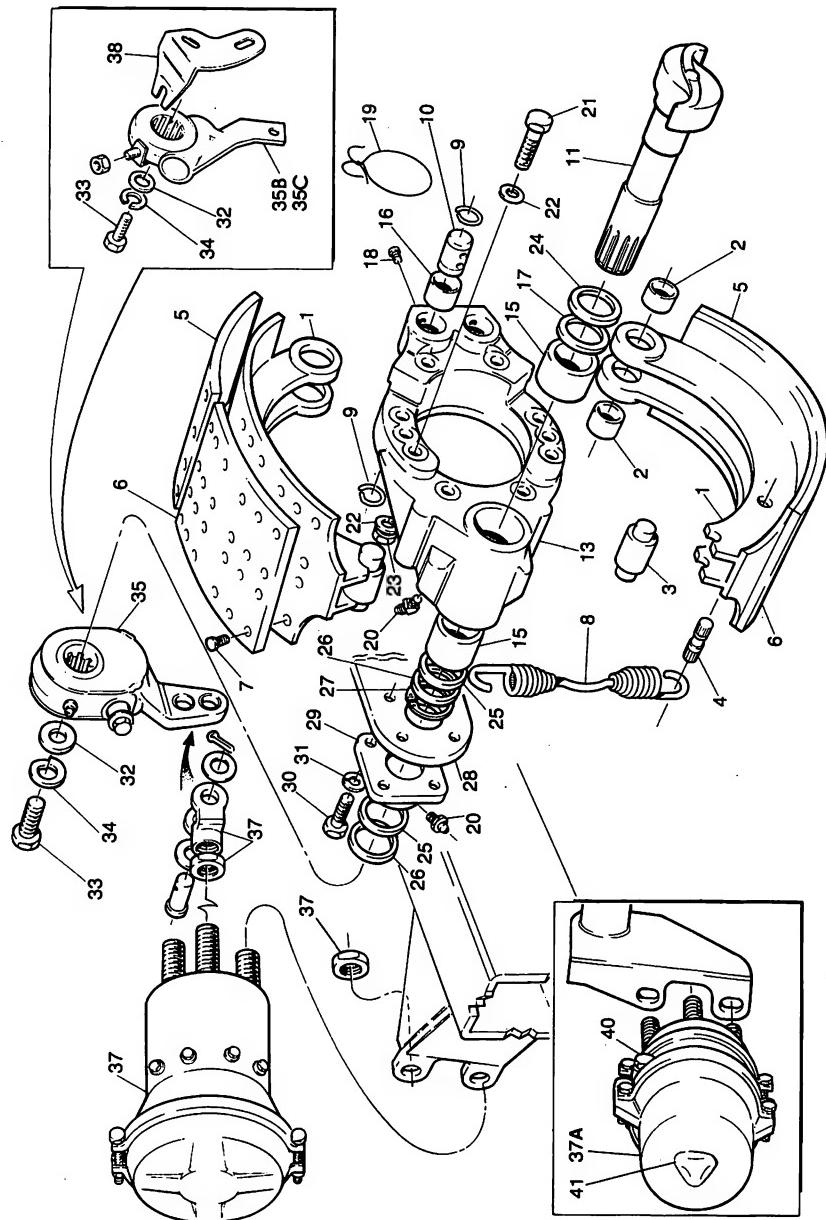
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BRAKE, REAR 14 1/2" (61152 SERIES)

REF	REV	QTY	PART NO	DESCRIPTION
				BRAKE, REAR 14 1/2" (61152 SERIES)
1		4	A0202519MM	.SHOE ASSEMBLY, BRAKE (LESS LINING)
2		2	A0202519ME	.BUSHING, BRAKE SHOE
3		4	A0202519MB	.ROLLER, BRAKE SHOE
* 3A		4	A0202519SA	.ROLLER, 1/8" INCH OVERSIZE
* 3B		4	A0202519SB	.ROLLER, 1/4" INCH OVERSIZE
4		4	A0202519MC	.PIN, RETURN SPRING
5		4	See page 2-3	.LINING, BRAKE ANCHOR END
6		4	See page 2-3	.LINING, BRAKE CAM END
7		1	A0102507RA	.BOLT KIT, BRAKE
8		2	A0202519MA	.SPRING, RETURN
9		8	A0202519MD	.RING, LOCK ANCHOR PIN
10		4	A0202519MF	.PIN, BRAKE SHOE ANCHOR
11		1	A0203554AC	.CAMSHAFT, CS SPLINED
* 12		1	A0203554AD	.CAMSHAFT, RS SPLINED
13		1	E0202586AK	.SPIDER ASSEMBLY, CS
* 14		1	E0202586AK	.SPIDER ASSEMBLY, RH
15		2	A0102502NE	..BUSHING, CAMSHAFT (BRONZE)
16		2	A0202519MK	..BUSHING, ANCHOR PIN
17		2	A0102502NB	..SEAL ASSEMBLY, GREASE
18		4	A0202519MG	.SCREW SET
19		AR	A0202519MH	.LOCKWIRE
20		2	A0202519MS	.FITTING, GREASE 1/8" 27 NPTF
21		4	BS-4132240	.BOLT, SHORT 5/8" 1/8 UNF X 2 GR8
* 21A		12	BS-4132242	.BOLT, MEDIUM 5/8" 18 UNF X 2-1/2 GR8
* 21B		4	BS-4132246	.BOLT, LONG 5/8" 18 UNF X 3-3/4 GR8
22		40	A0102502MT	.WASHER FLAT
23		20	BS-4200610	.NUT, LOCK 5/8" 18 UNF
24		AR	A0202519MJ	.WASHER, SPACER -.062
25		AR	A0203554AE	.WASHER, SPACER .093
26		AR	A0203554AF	.WASHER, SPACER -.125
27		2	A0102502MD	.RING, LOCK CAMSHAFT
28		2	A0202519ML	.BRACKET, CAMSHAFT
29		2	020258011	.BEARING, CUP REAR BRAKE CAMSHAFT
30		8	BS-4122156	.BOLT, 3/8" 16 UNC X 1 GR8
31		8	A0102530AD	.WASHER, FLAT
32		2	A0202519MN	.WASHER, FLAT

* Indicates item not shown on illustration

BRAKE, REAR 14 1/2" (61152 SERIES)



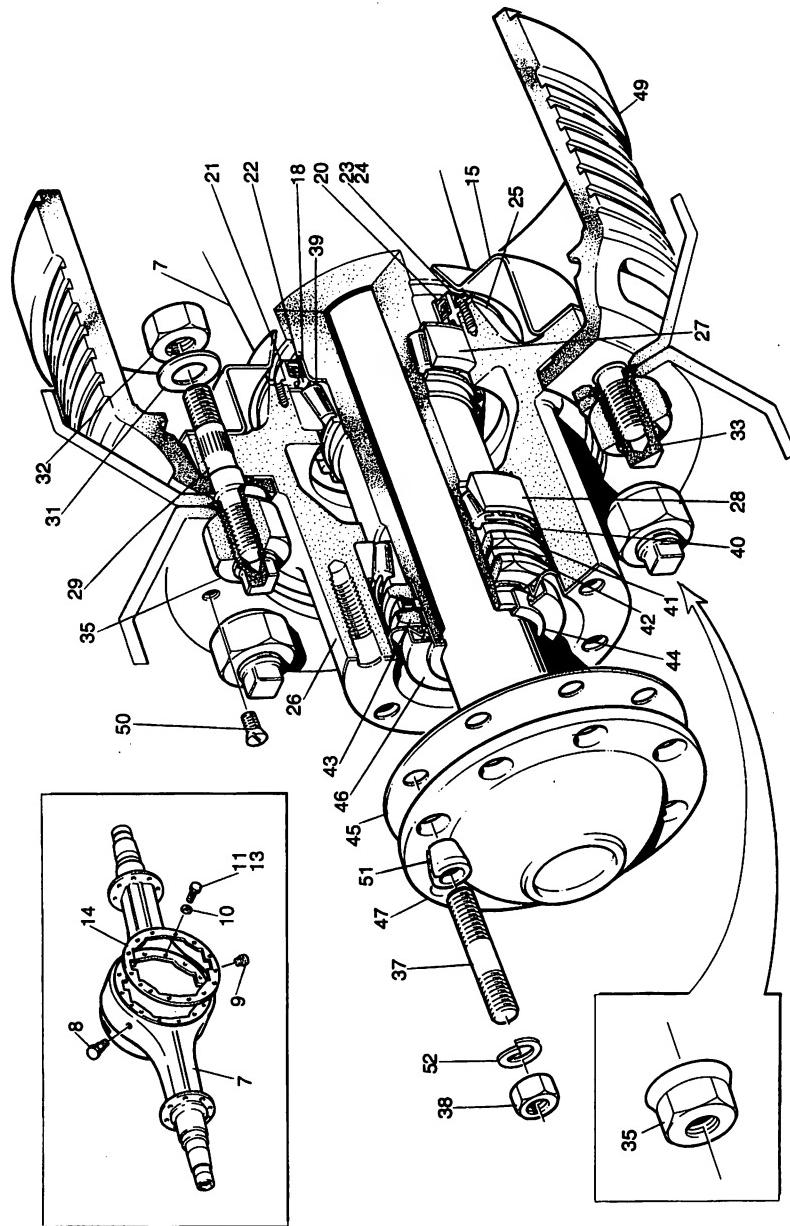
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BRAKE, REAR 14 1/2" (61152 SERIES)

REF	REV	QTY	PART NO	DESCRIPTION
33		1	A0202519MR	.BOLT, 1/2" 13 UNC X 1-1/8 GR8
34		2	BS-4520124	.WASHER, LOCK 1/2" ZN PL STL
35		1	See page 1-9	.ADJUSTER, SLACK CS
35B	left	1	E0202586AS	NOT APPLICABLE Haldex left
35C	Right	1	E0202586AT	NOT APPLICABLE Haldex Right
36		1	See page 1-9	.ADJUSTER, SLACK RS
37		2	See page 2-5	.BRAKE CHAMBER, REAR AXLE
37A				NOT APPLICABLE
38		1	010201044	.BRACKET, SLACK ADJUSTER CS
39		1	010201045	.BRACKET, SLACK ADJUSTER CS
40		1	A0212506AC	.STUD ASSEMBLY, RELEASE
41		1	A0202504VA	.PLUG, BRAKE CHAMBER
42		2	E0202532AB	.SENSOR ASSEMBLY, ABS
43		2	A0202532AE	.CABLE, ABS SENSOR
44		2	BS-6800201	.FITTING, GREASE ABS
45		2	A0102542AB	.BUSHING, RUBBER

* Indicates item not shown on illustration

AXLE ASSEMBLY, REAR (61152 SERIES)



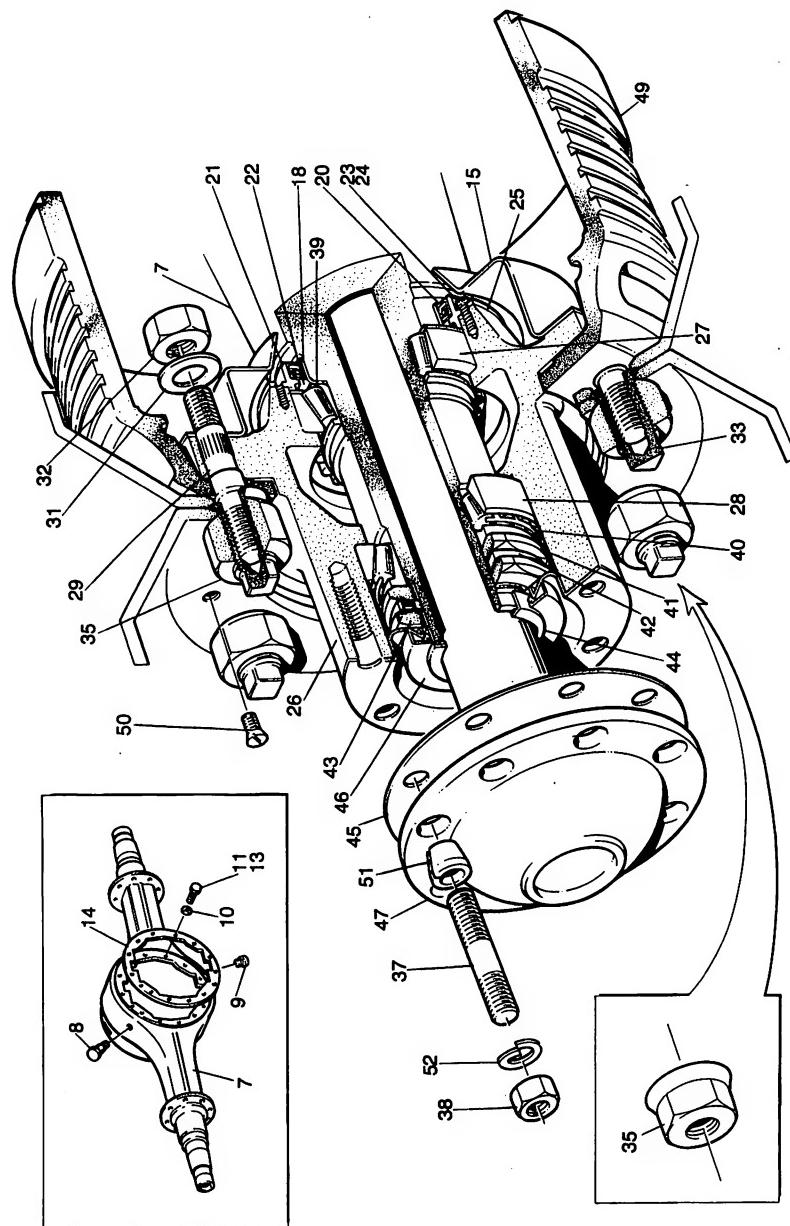
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AXLE ASSEMBLY, REAR (61152 SERIES)

REF	REV	QTY	PART NO	DESCRIPTION
AXLE ASSEMBLY, REAR (61152 SERIES)				
* 1		1	050205507	AXLE ASSEMBLY, REAR 61152 SERIES
* 2		2	See page 2-7	.BRAKES, REAR AXLE RS/CS
* 3		2	See page 2-3	.BRAKE LININGS
* 4		2	See page 2-7	.SLACK ADJUSTER, REAR AXLE
* 5		2	See page 2-5	.BRAKE CHAMBER, REAR AXLE
* 6		1	See page 2-15	CARRIER ASSEMBLY, DIFFERENTIAL
7		1	A0203554AB	.HOUSING ASSEMBLY, AXLE WITH LATERAL ROD BRACKET
8		2	A0202504AC	.BREATHER ASSEMBLY, REAR AXLE 3/8"-18
9		3	A0202519GD	.PLUG, MAGNETIC
10		3	A0202504AF	.WASHER, FLAT CARRIER TO HOUSING
11		4	BS-4122239	.BOLT, CARRIER TO HOUSING SHORT-5/8"-11 UNC X 1-3/4"
* 12				.NOT APPLICABLE
13		4	D0202501KB	.STUD, CARRIER TO HOUSING 5/8"-11 UNC X 5/8"-18 UNF
* 13A		4	BS-4204610	.NUT, HEX 5/8" 18 UNF GR8
14		1	A0202504ZA	.SEALANT, SILASTIC CARRIER TO HOUSING
15		2	A0202519EB	.SLINGER, OIL RS AND CS
* 16		2	BS-4122134	.BOLT, 5/16" 18 UNC X 3/4 GR8
* 17		10	A0102502EC	.WASHER, FLAT
18		2	A0202519GP	.WIPER, OIL SEAL INNER
* 19		2	A0202519FF	NOT APPLICABLE
20		1	A0202519FA	NOT APPLICABLE
21		1	A0202519FB	..RETAINER
22		1		NOT APPLICABLE
23		12	A0202526EF	.SCREW, SPECIAL 5/16 18 UNC X 5/8
24		12	A0202526ED	.WASHER, LOCK
25		2	A0202519GA	.GASKET, OIL INNER
26		1	A0203535AB	.HUB, CUP & STUD ASSEMBLY, RS/CS (HUB PILOT)
27		1	A0202519DA	..BEARING, CUP INNER
28		1	A0202519DB	..BEARING, CUP OUTER
29		10	A0202597AB	.STUD, RS 3/4"-16 UNF (STUD PILOT) NEW STYLE
* 30		10	A0202597AC	.STUD, PILOT CS 3/4"-16 UNF (STUD PILOT) NEW STYLE
31		20	A0102507CE	.WASHER, FLAT
32		20	BS-4200614	.NUT, LOCK 7/8"-14 UNF
33				NOT APPLICABLE
* 34				NOT APPLICABLE
35		10	A0202504AX	.NUT, WHEEL STUD CS INNER (3/4"-16 UNF)

* Indicates item not shown on illustration

AXLE ASSEMBLY, REAR (61152 SERIES)



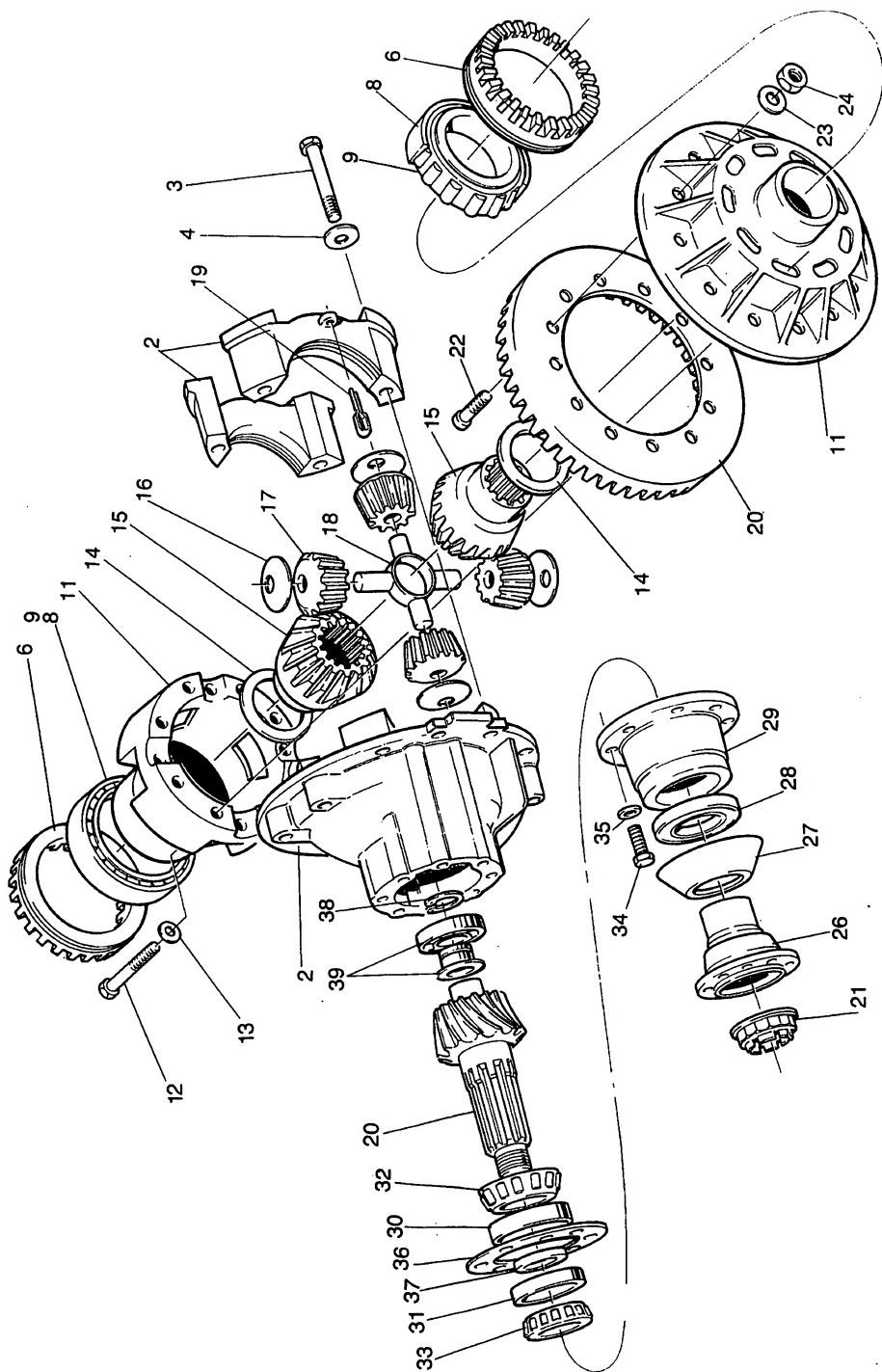
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05/01

AXLE ASSEMBLY, REAR (61152 SERIES)

REF	REV	QTY	PART NO	DESCRIPTION
* 36		10	A0202504AX	.NUT, WHEEL STUD CS INNER (3/4-16 UNF)
37		20	A0202519BF	.STUD, OUTER RS AND CS 9/16"-18 UNF
38		20	A0202526EC	.NUT, HEX 9/16" 18 UNF
39		2	A0202519EL	.BEARING, CONE INNER
40		2	A0202519GH	.BEARING, CONE OUTER
41		2	A0202504AN	.NUT, WHEEL BEARING ADJUSTING INNER
42		2	A0202504AP	.WASHER, LOCK
43		4	A0202504AR	NUT, WHEEL BEARING ADJUSTING OUTER
44				NOT APPLICABLE
45				NOT APPLICABLE
46				NOT APPLICABLE
47		2	C0202504AC	.SHAFT, AXLE RS
* 48		2	C0202504AD	.SHAFT, AXLE CS
49		10	A0202519EA	.DRUM, BRAKE
50		2	A0103556AB	.SCREW, COUNTERSUNK 1/2 13 UNC X 1
51		1	A0202514AC	.DOWEL, TAPERED
* 52		2	E0202532AB	.EXCITER, REAR AXLE

* Indicates item not shown on illustration

CARRIER ASSEMBLY, DIFFERENTIAL



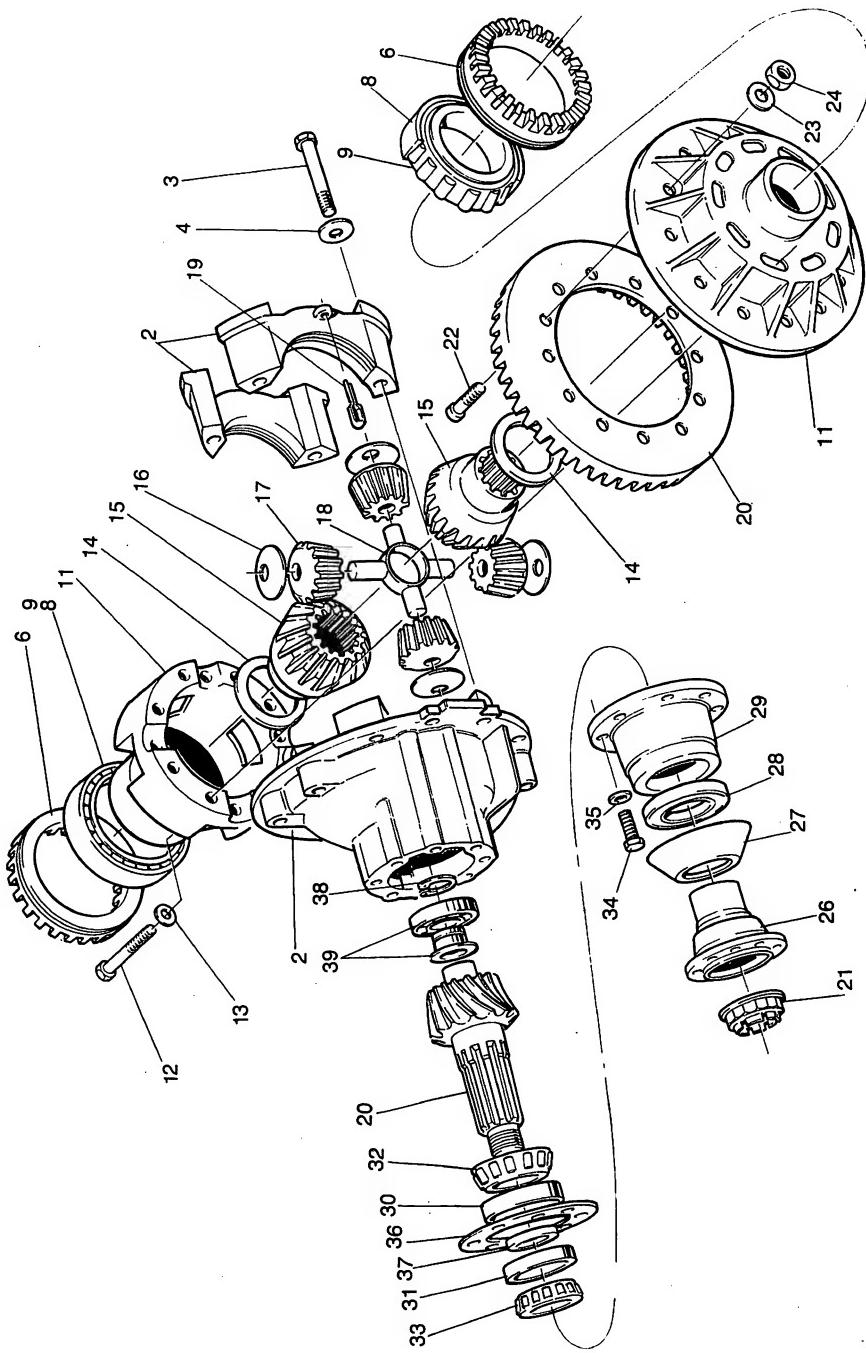
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04/01

CARRIER ASSEMBLY, DIFFERENTIAL

REF	REV	QTY	PART NO	DESCRIPTION
CARRIER ASSEMBLY, DIFFERENTIAL				
* 1		1	A0202597EE	CARRIER ASSEMBLY, DIFFERENTIAL A13-3200-P-1706 (4.30:1 RATIO)
2		1	E0202505CC	.CARRIER AND CAP ASSEMBLY, (MATCHED SET)
3		4	C0202504CA	..BOLT, DIFFERENTIAL BEARING CAP
4		4	C0202504CB	..WASHER, FLAT DIFFERENTIAL BEARING CAP
* 5		AR	A0202504ZA	.SEALANT, SILASTIC CARR TO HSG
6		2	E0202505BC	. RING, DIFFERENTIAL BEARING ADJUSTMENT
* 7		AR	E0202505BD	.LOCKTITE (CSS)
8		2	A0202504ED	.CUP, BEARING INNER
9		2	A0202504BC	.CONE, BEARING INNER
* 10		1	A0202597DD	.CASE AND NEST ASSEMBLY, DIFFERENTIAL
11		1	E0202505EE	..CASE ASSEMBLY
12		12	A0202502EB	.BOLT
13		12	A0202504AF	.WASHER, FLAT CARRIER TO HOUSING
14		2	C0202504EA	.WASHER, THRUST SIDE GEAR
15		2	C0202504EB	.GEAR, SIDE
16		4	C0202504EC	.WASHER, THRUST PINION
17		4	C0202504ED	.PINION
18		1	C0202504EF	.SPIDER
19		2	C0202504BH	.PIN, COTTER ADJUSTING RING LOCK
20		1	E0202505FF	.DRIVE ASSEMBLY, GEAR AND PINION (4.56:1 RATIO)
21		1	C0202504GA	.NUT, LOCK M45 1.5
22		12	E0202502BA	.BOLT, GEAR TO CASE
* 23		12	A0202504AF	.WASHER, FLAT CARR TO HSG
* 24		12	E0202502BC	.NUT
* 25		1	A0202583FF	.FLANGE ASSEMBLY, (17101 SERIES)
26		1	A0202583FA	..FLANGE, 17101
27				NOT APPLICABLE
28		1	C0202504BP	.SEAL ASSEMBLY, OIL
29		1	C0202504JJ	.CAGE AND CUP ASSEMBLY
30		1	C0202504JA	.CUP, BEARING INNER
31		1	C0202504JB	.CUP, BEARING OUTER
32		1	C0202504BR	.CONE, BEARING INNER
33		1	C0202504BS	.CONE, BEARING OUTER
34		8	C0202504BT	.BOLT, BEARING CAGE M12 1.75 X 45
35		8	A0202504KE	.WASHER, FLAT

* Indicates item not shown on illustration

CARRIER ASSEMBLY, DIFFERENTIAL



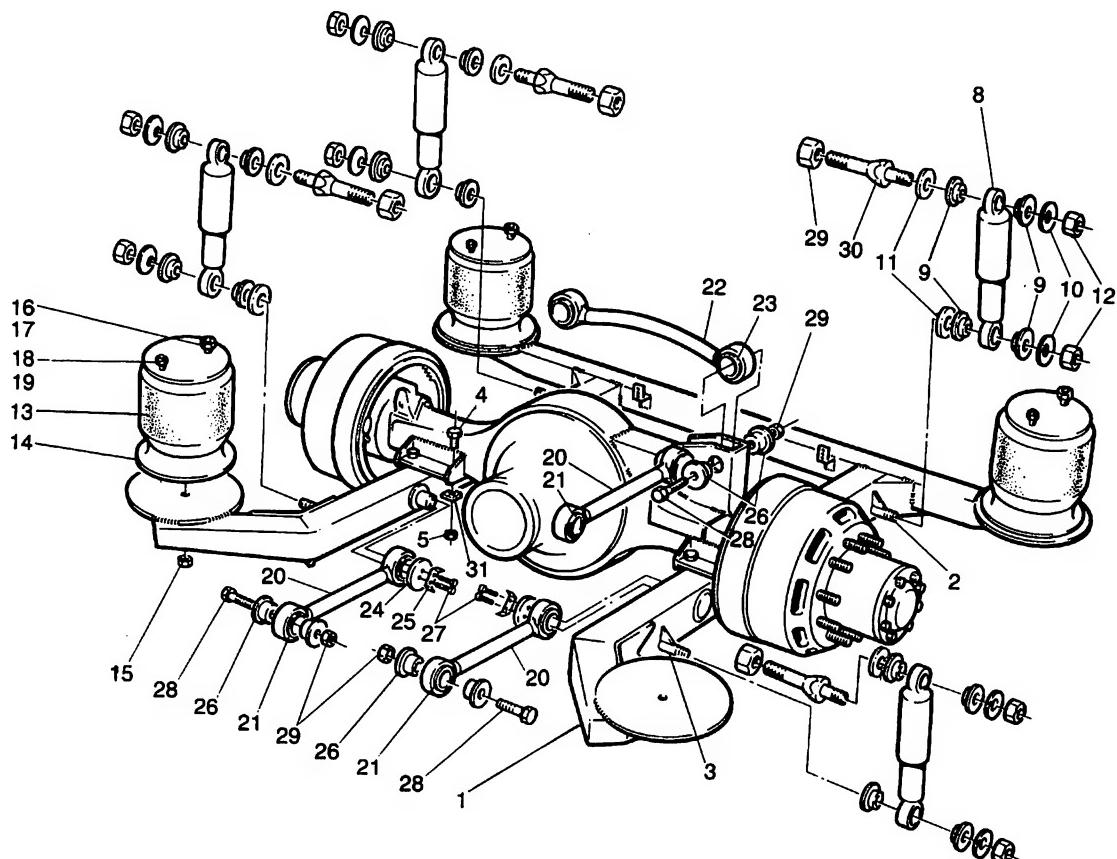
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04/01

CARRIER ASSEMBLY, DIFFERENTIAL

REF	REV	QTY	PART NO	DESCRIPTION
36		AR	C0202504BV	.SHIM - .075 MM (.003)
* 36A		AR	C0202504BW	.SHIM - .125 MM (.005)
* 36B		AR	C0202504BX	.SHIM - .200 MM (.008)
* 36C		AR	C0202504BY	.SHIM - .500 MM (.020)
37		AR	E0202505GA	.SPACER - 6.35 MM (.250)
* 37A		AR	E0202505GB	.SPACER - 6.38 MM (.251)
* 37B		AR	E0202505GC	.SPACER - 6.40 MM (.252)
* 37C		AR	E0202505GD	.SPACER - 6.43 MM (.253)
* 37D		AR	E0202505GE	.SPACER - 6.45 MM (.254)
* 37E		AR	E0202505GF	.SPACER - 6.50 MM (.256)
* 37F		AR	E0202505GH	.SPACER - 6.60 MM (.260)
* 37G		AR	E0202505GJ	.SPACER - 6.63 MM (.261)
* 37H		AR	E0202505GK	.SPACER - 6.65 MM (.262)
* 37J		AR	E0202505GL	.SPACER - 6.68 MM (.263)
* 37K		AR	E0202505GM	.SPACER - 6.70 MM (.264)
38		1	E0202505BF	.RING, LOCK
39		1	E0202505BE	.BEARING, ROLLER (SPIGOT)
* 40		1	C0202504ZA	KIT DIFFERENTIAL (ITEMS 14 THRU 18)
* 41		1	C0202504ZB	KIT BEARING CAGE SHIM (ITEMS 36 THRU 36C)
* 42		1	C0202504ZC	KIT SHIM/SPACER (ITEMS 37 THRU 37K)
* 43		1	E0202502ZA	KIT BOLT (ITEMS 22, 23, 24)

* Indicates item not shown on illustration

SUSPENSION, REAR AXLE



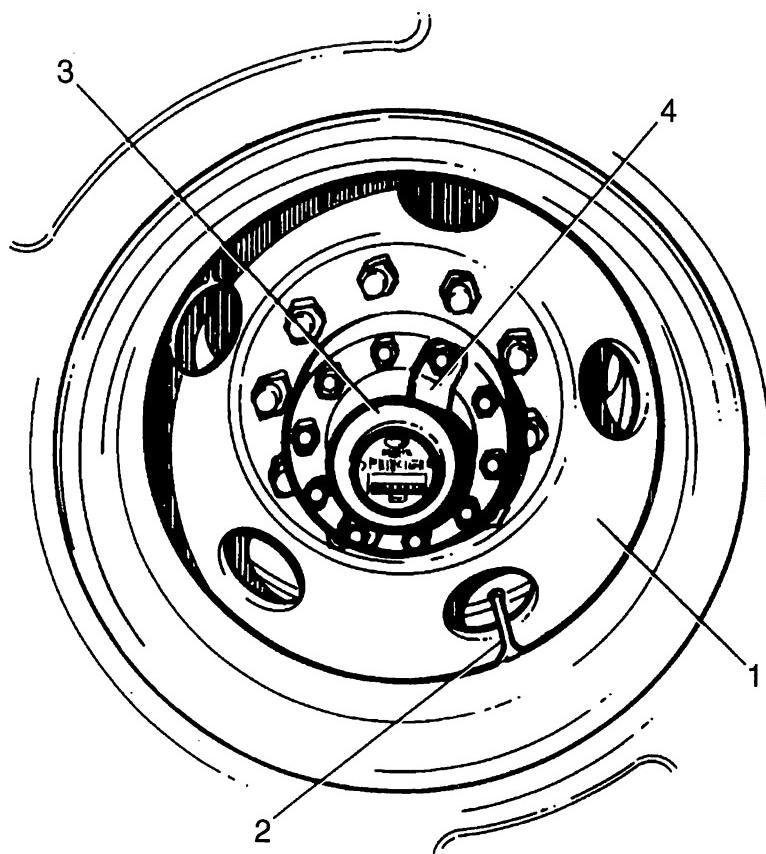
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07/99

SUSPENSION, REAR AXLE

REF	REV	QTY	PART NO	DESCRIPTION
SUSPENSION, REAR AXLE				
1		1	050231402	BEAM, WALKING WELDMENT (61152 SERIES AXLE)
2		2	010231122	PIN, SHOCK FRONT
3		2	010231123	PIN, SHOCK REAR
4		8	BS-4132283	BOLT, HX HD 7/8"-14 UNF X 2-3/4 GR8
5		8	BS-4200614	NUT, LOCK 7/8-14 UNF
* 6		2	BS-6800201	FITTING, GREASE 1/8-27
* 6A		4	BS-6800203	FITTING, GREASE 1/8 45°
* 7		2	BS-6802103	ELBOW, 45° BODY
8		4	050231505	SHOCK ABSORBER
9		16	010134001	BUSHING, RUBBER
10		8	010134002	FLANGE, OUTER
11		8	010134003	FLANGE, INNER
12		8	BS-4202424	LOCKNUT, NYLON 3/4-16 UNF (GR8)
13		4	010132404	SPRING ASSEMBLY, AIR
* 13A		4	050232501	BAG ASSEMBLY, AIR WITH PLASTIC ADAPTER
14		1	A0132404AB	BASE, PISTON COMPOSITE
15		4	BS-4202910	NUT, NYLOCK 3/4" 10 LOW PROFILE
16		4	BS-4204412	NUT, HEX 3/4" -16
17		4	BS-4530117	WASHER, EXSTAR 3/4"
18		4	BS-4204308	NUT, HEX 1/2 NC
19		4	BS-4520124	WASHER, LOCK 1/2" ZN PL STL
20		3	050233502	ROD, RADIUS REAR 24" FIXED
21		2	A0133501AB	BUSHING
22		1	050233501	ROD, RADIUS LATERAL 28 3/4" CURVED
23		2	A0235502AB	BUSHING
24		3	010133002	PLATE, PRESSURE
25		3	010133003	STRIP, LOCK PRESSURE PLATE
26		10	010133007	BUSHING, FLANGED EXTENDED
27		6	BS-4122259	BOLT, HX HD 3/4-10 UNC X 1-3/4 GR8
28		5	BS-4132308	SCREW, HX HD 1"-14 UNF X 5 1/2 GR 8
29		9	BS-4202426	LOCKNUT, NYLON 1-14 UNF
30		4	010134006	STUD, SHOCK
31		8	010201037	BAR, ALIGNING
* 32		4	011241002	ADAPTER, TECTRON FOR SHOCK ABSORBER
* 33		8	BS-4500205	WASHER, HARD STAINLESS STEEL 1" FOR SHOCK ABSORBER
* 34		8	BS-4202312	NUT, NYLON 3/4"-10
* 35		4	BS-4202308	NUT, NYLON 1/2"-13

* Indicates item not shown on illustration

COMPONENTS, REAR AXLE MISCELLANEOUS



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COMPONENTS, REAR AXLE MISCELLANEOUS

REF	REV	QTY	PART NO	DESCRIPTION
				COMPONENTS, REAR AXLE MISCELLANEOUS
1		1	050108561	RIM AND TIRE ASSEMBLY
2		1	050103005	VALVE, EXTENSION
3		1	010201435	HUBODOMETER, VEEDEER ROOT MILES
4		1	050240002	BRACKET, HUBODOMETER

* Indicates item not shown on illustration

REAR AXLE

04.

Steering

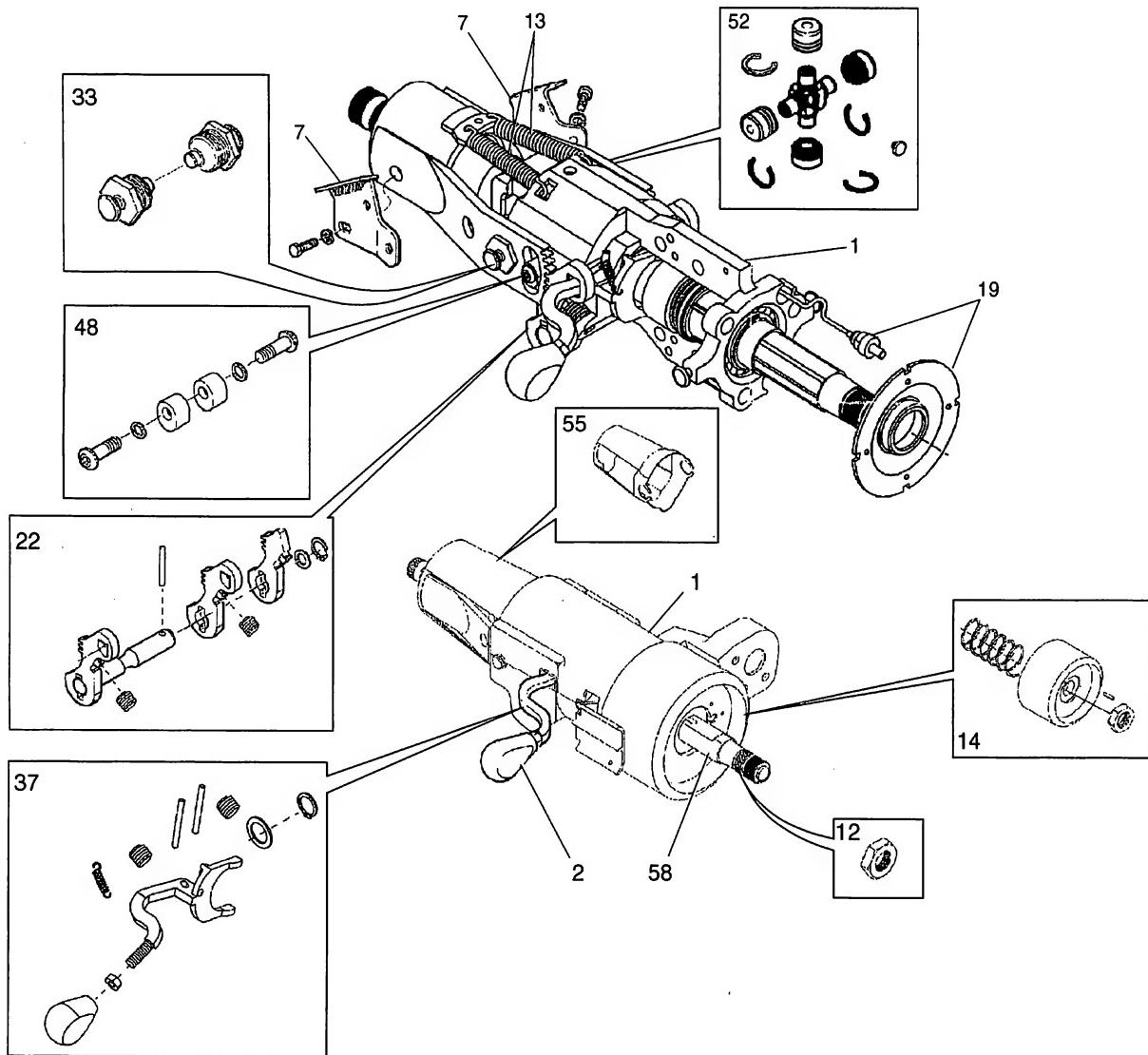
System

Orion Bus Industries



Section 4: *STEERING SYSTEM*

STEERING COLUMN ASSEMBLY



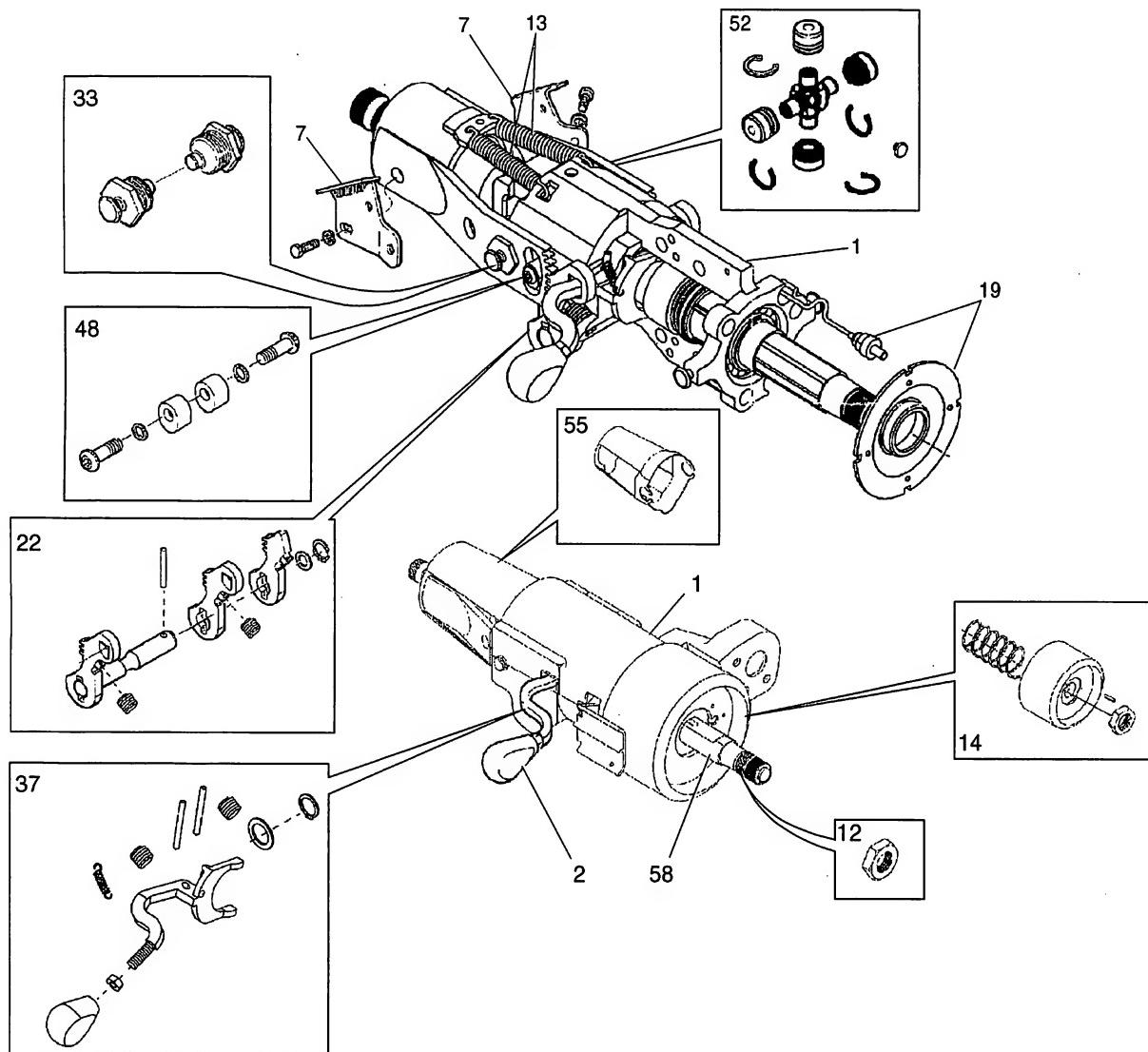
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05/00

STEERING COLUMN ASSEMBLY

REF	REV	QTY	PART NO	DESCRIPTION
STEERING COLUMN ASSEMBLY				
1		1	050410505	COLUMN, STEERING TILT/TELESCOPIC W/TAPPED SHAFT
* 1A			E0410505AA	COLUMN, STEERING SUB ASSEMBLY WITHOUT COVERS
2		1	E0410505ZA	.KNOB KIT
* 3			NPN	..KNOB
* 4			NPN	..LOCKNUT
* 5		1	E0410505ZB	.GREASE KIT
* 6			NPN	..GREASE, PACKET
7		1	E0410501ZD	.BRACKET KIT
* 8			NPN	..BRACKET
* 9			NPN	..BRACKET
* 10			NPN	..LOCK WASHER
* 11			NPN	..BOLT
12		1	E0410501AJ	.NUT, SERVICE HEXAGONAL 7/8"-20
13		1	E0410505AB	.SPRING, EXTENSION
14		1	E0410505ZC	.KIT, HIDER GAP
* 15			NPN	..COVER, ASSEMBLY
* 16			NPN	..NUT
* 17			NPN	..PULLER TOOL
* 18			NPN	..SPRING
19		1	E0410505ZD	.BRUSH KIT, HORN
* 20			NPN	..HORN BRUSH
* 21			NPN	..CONTACT ASSEMBLY
22		1	E0410505ZE	.ROD AND PAWL KIT
* 23			NPN	..ROD AND PAWL ASSEMBLY
* 24			NPN	..WASHER
* 25			NPN	..PIN
* 26			NPN	..SPRING
* 27			NPN	..KNOB
* 28			NPN	..LOCKNUT
* 29			NPN	..SPRING
* 30			NPN	..RING, RETAINING
* 31			NPN	..PIN
* 32			NPN	..PAWL
33		1	E0410501ZL	.BOLT KIT, TILT
* 34			NPN	..KIT, BALL NOSE TILT BOLT
* 35		1	E0410505ZF	.COVER KIT, TROUGH
* 36			NPN	..COVER

* Indicates item not shown on illustration

STEERING COLUMN ASSEMBLY



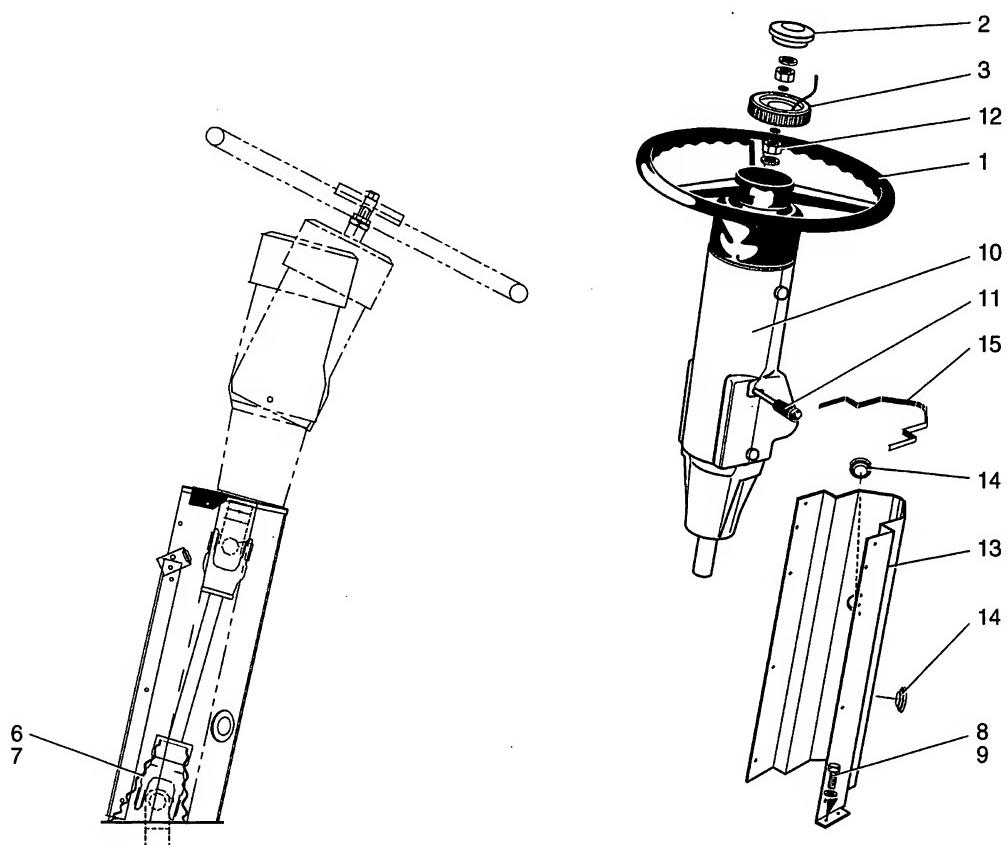
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05/00

STEERING COLUMN ASSEMBLY

REF	REV	QTY	PART NO	DESCRIPTION
37		1	E0410505ZG	.LEVER KIT, TILT
* 38			NPN	..ACTUATOR
* 39			NPN	..SPRING
* 40			NPN	..LOCKNUT
* 41			NPN	..KNOB
* 42			NPN	..PIN
* 43			NPN	..SPRING
* 44			NPN	..WASHER
* 45			NPN	..RING, RETAINING
* 46			NPN	..PIN
48		1	E0410501ZR	.STOP KIT, TILT
* 49			NPN	..STOP, TILT
* 50			NPN	..SCREW
* 51			NPN	..WASHER
52		1	E0410501AW	.U-JOINT KIT
* 53			NPN	..RING, TOLERENCE
* 54			NPN	..RING, RETAINING
55		1	E0410502ZA	.COVER KIT, UPPER AND LOWER
* 56			NPN	..COVER, UPPER
* 57			NPN	..COVER, LOWER
58		1	E0410505ZH	.COLLAR, LOCKING TELESCOPE
* 59			NPN	..BEARING, REMOVAL TOOL
* 60			NPN	..SHAFT, PROTECTOR
* 61			NPN	..ROLLER
* 62			NPN	..NUT, 7/8"-20
* 63			NPN	..COLLAR, LOCKING
* 64			NPN	..CAM CANCELLATION
* 65			NPN	..BEARING
* 66			NPN	..RING, SNAP

* Indicates item not shown on illustration

COVER, STEERING SHAFT INSTALLATION



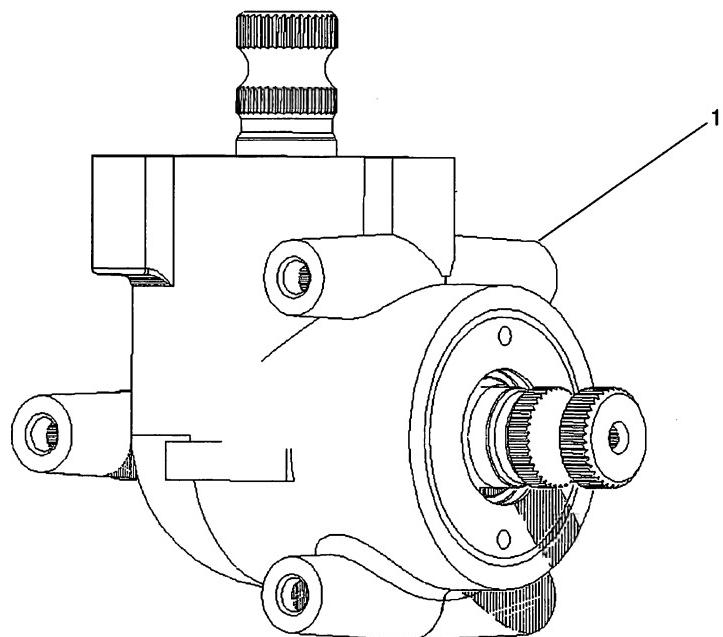
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08/00

COVER, STEERING SHAFT INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
				COVER, STEERING SHAFT INSTALLATION
1		1	050410401	WHEEL, STEERING 3 SPOKE BLACK
2		1	050410402	BUTTON, HORN WITH EMBLEM
3		1	050410006	KNOB, LOCKING
*4		1	BS-4202306	NUT, NYLON 3/8"-16 ZP
*5		4	BS-4132157	SCREW, HEX HEAD 3/8"X-1/4"
6		1	010410023	BOOT, FLAT RUBBER CENTER
7		1	010410022	BRACKET, FLAT BOOT CENTER STEERING COLUMN
8		4	BS-4110506	SCREW, SELFTAP 5/8"
9		4	BS-4500211	WASHER, FLAT 3/8" HARD
10		1	See Page 4-3	STEERING COLUMN ASSEMBLY
11		1	See Page 4-3	LEVER, TILTING STEERING COLUMN
12		1	E0410501AJ	NUT, SERVICE HEXAGONAL 7/8"-20
13		1	050410001	COVER, UPPER STEERING COLUMN NO VENT
14		1	BS-2614200	PLUG, SNAP-IN
15		1	BS-2600136	CHANNEL, RUBBER GROOVED

* Indicates item not shown on illustration

BOX, MITRE STEERING



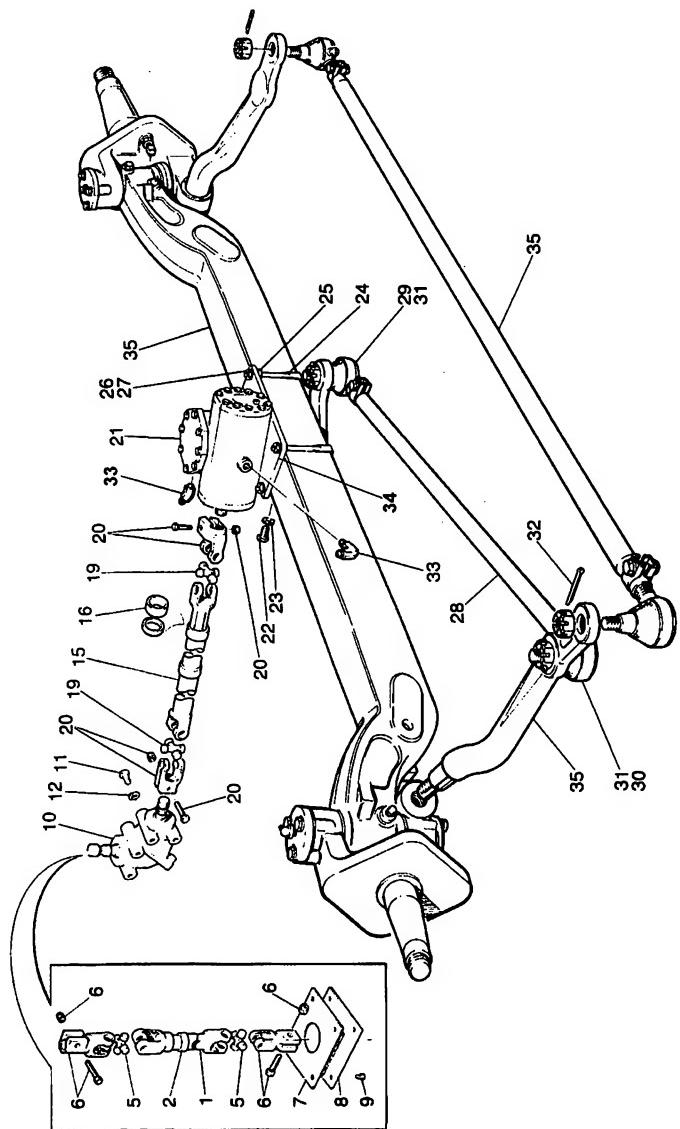
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03/01

BOX, MITRE STEERING

REF	REV	QTY	PART NO	DESCRIPTION
			050433506	BOX, MITRE STEERING
1		1	050433506	BOX, MITRE STEERING 90° SEALED UNIT
*2		1	051421329	BRACKET, MITRE BOX MOUNTING

* Indicates item not shown on illustration

STEERING SHAFT LINKAGE



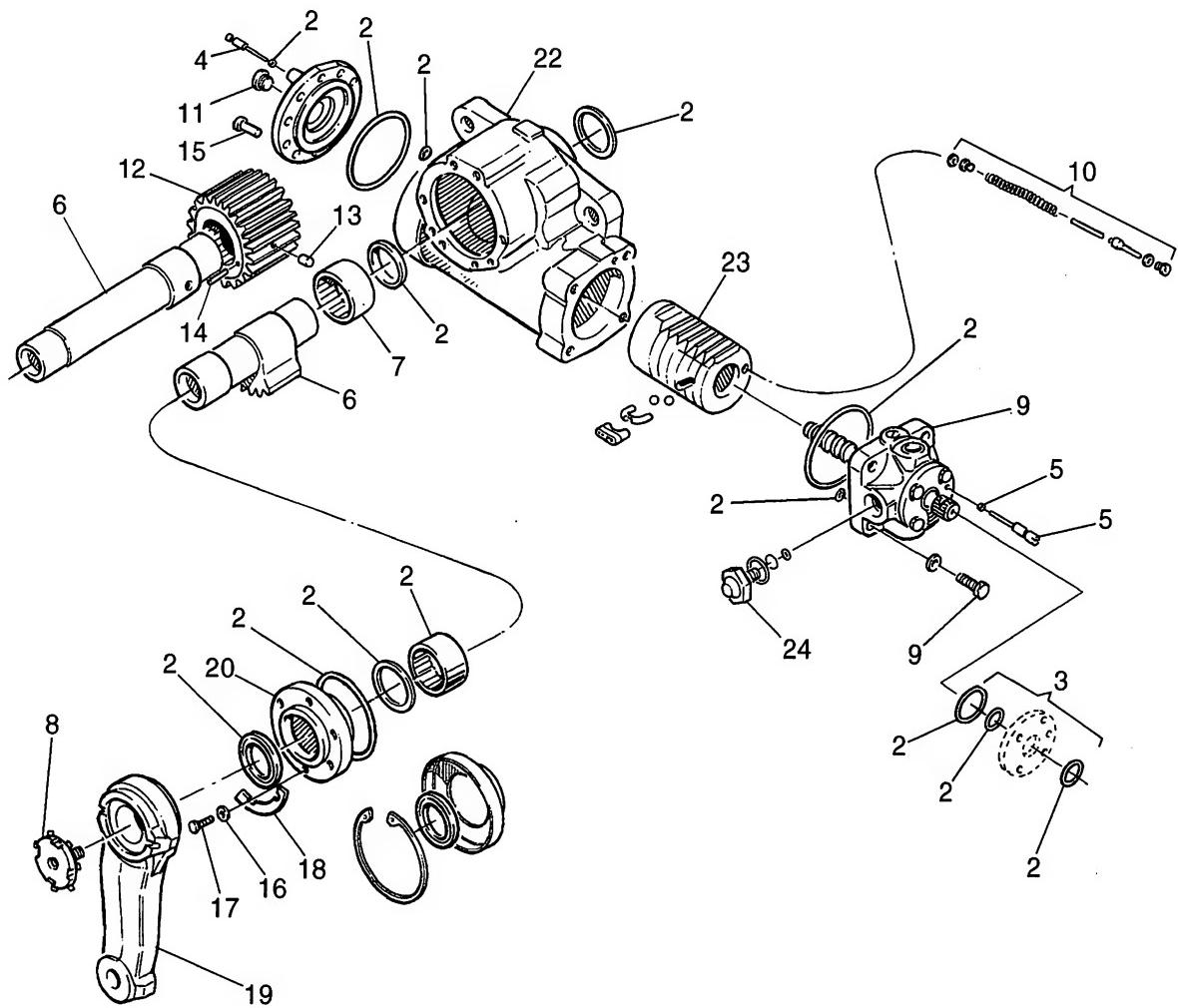
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03/01

STEERING SHAFT LINKAGE

REF	REV	QTY	PART NO	DESCRIPTION
STEERING SHAFT LINKAGE				
1		1	050412501	SHAFT ASSEMBLY, DRIVE LOWER STEERING
2		1	A0412503ZZ	CAP, DUST KIT
* 3		1	A0412501CA	WASHER, STEEL
* 4		1	A0412501CB	SEAL, CORK
5		2	020412510	CROSS AND BEARING KIT
6		2	E0412501AB	YOKE, KIT
7		1	010410023	BOOT, FLAT RUBBER
8		1	010410022	BRACKET, FLAT RUBBER BOOT
9		4	BS-4110506	SCREW, SELFTAP #10 X 5/8 PH PA
10		1	See page 4-9	BOX ASSEMBLY, MITRE STEERING 90°
11		3	BS-4122156	BOLT, HX HD 3/8-16 UNC X 1 GR8
12		3	BS-4500211	WASHER, LOCK 3/8 ZN PL STL
* 13		4	BS-4132180	SCREW, HX HD 7/16-20 UNF X 2 GR8
* 14		4	BS-4202420	LOCKNUT, NYLON 7/16-20 UNF
15		1	050412505	DRIVESHAFT ASSEMBLY, MITRE BOX TO STEER BOX
16		1	A0412503ZZ	CAP, DUST KIT
* 17		1	A0412501CA	WASHER, STEEL
* 18		1	A0412501CB	SEAL, CORK
19		2	020412510	CROSS AND BEARING, KIT
20		2	E0412501AB	YOKE, KIT
* 20A		2	BS-4132180	BOLT HEX HEAD 7/16" - 20UNF
* 20B		2	BS-4202420	NUT, NYLOCK 7/16" UNF
21			See page 4-13	BOX ASSEMBLY, POWER STEERING (SHEPPARD)
22		2	BS-4131239	SCREW HX HD 5/8"-18 UNF X 1-3/4 GR5
23		2	BS-4520126	WASHER, LOCK 5/8"
24		2	010433016	U-BOLT, STEERING SHAFT
25		2	BS-2146463	SPACER, STEEL 5/8" ID X 1 OD X 3/4
26		4	BS-4520126	WASHER, LOCK 5/8
27		4	BS-4200510	LOCKNUT, STOVER 5/8-11 UNC
28		1	010402505	DRAGLINK ASSEMBLY, ADJUSTABLE REAR
29		1	A0402505BB	END ASSEMBLY, ROD (LH THREAD)
30		1	A0402505CC	END ASSEMBLY, ROD (RH THREAD)
31		1	BS-6800201	FITTING, GREASE 1/8-27
32		1	BS-4314704	PIN, COTTER 1/8 X 1 1/4
33		2	BS-6137107	ELBOW 45° # 8
34		1	051421330	BRACKET, MOUNTING MITRE BOX
35			See page 1-3	AXLE ASSEMBLY, FRONT

* Indicates item not shown on illustration

GEAR, STEERING



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05/00

GEAR, STEERING

REF	REV	QTY	PART NO	DESCRIPTION
				GEAR, STEERING
* 1		1	050433904	GEAR, STEERING (M110PBT1A2)
2		1	F0431508CA	SEAL REBUILD KIT
3		1	E0433904CB	SEAL KIT, INPUT SHAFT (M110PBT1A2)
4		1	F0431508CC	PLUNGER KIT, CYLINDER HEAD
5		1	F0431508CD	CAP KIT, PLUNGER BEARING
6	A	1	E0433904CD	SHAFT KIT, SECTOR OUTPUT SERVICE
7		1	F0431508CF	BEARING KIT, ROLLER SERVICE
* 8		1	F0431508CG	RETAINER ARM PITMAN KIT
9		1	E0433904CF	CAP BEARING SHAFT KIT (M110PBT1A2)
10		1	F0431508CJ	VALVE RELIEF KIT
11		2	F0431508CK	PLUG, SLAVE PORT, .56 18 SAE THRD
12		1	F0431508CL	GEAR, PINION
13		1	F0431508CM	PIN, GEAR RETAINING
14		1	F0431508CN	PIN, ROLL
15		10	NPN	BOLT, M10 X 1.5 X 30MM LG. G10.9
16		6	NPN	WASHER, M 8
17		6	NPN	SOCKET, HEAD HEXAGONAL 8 X 16 MM
18		1	NPN	COVER, RETAINER
19		1	E0433904CG	ARM, PITMAN (M110PBT1A2)
20		1	NPN	COVER
* 21		1	NPN	HEAD, CYLINDER
22		1	NPN	HOUSING
23		1	NPN	PISTON
24		1	NPN	CARTRIDGE, PRESSURE RELIEF
* 25		1	E0433904CH	CLAMP, (M110PBT1A2)
* 26		1	E0433904CJ	RING, CLAMP (M110PBT1A2)

* Indicates item not shown on illustration

STEERING SYSTEM

07.

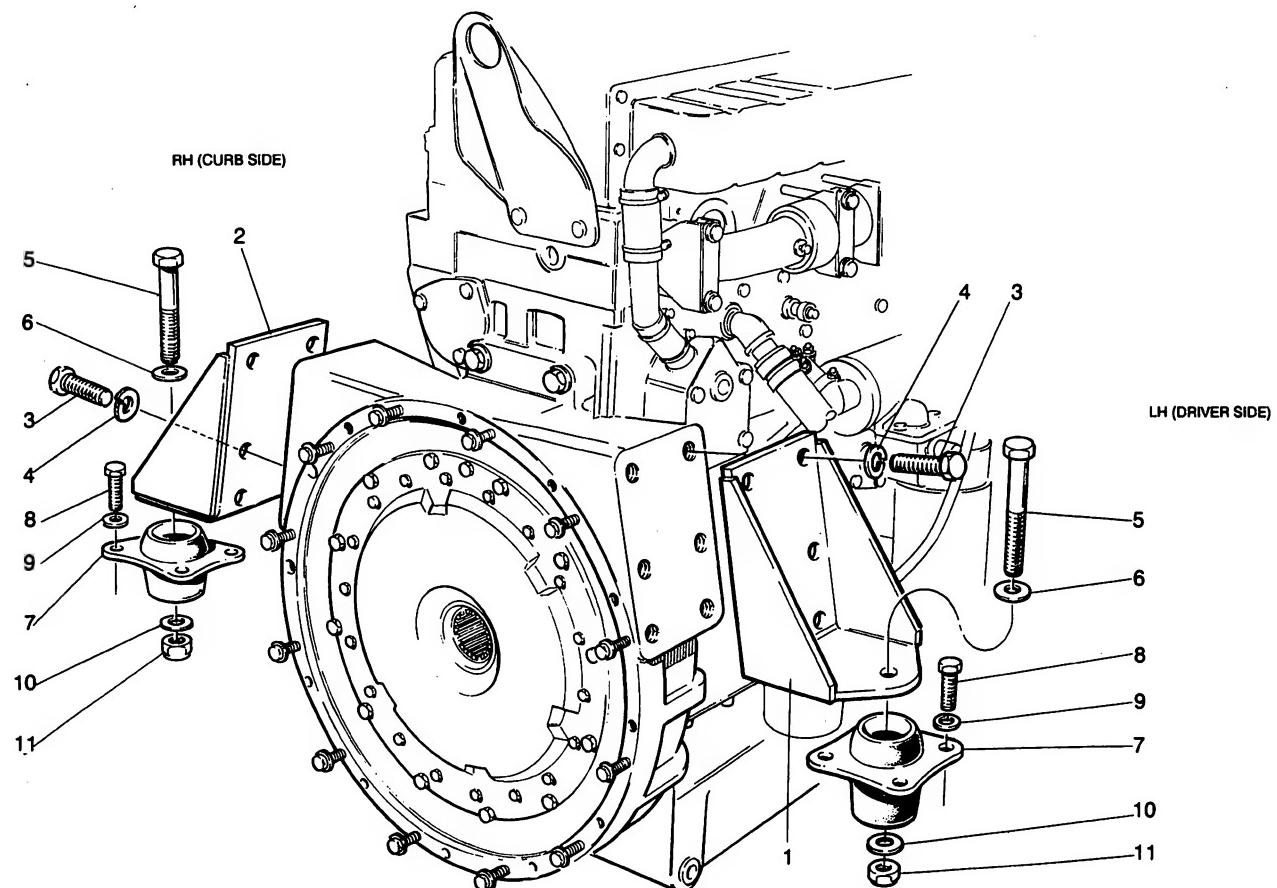
Engine & Transmission

Orion Bus Industries



Section 7: *ENGINE AND TRANSMISSION*

MOUNTING, ENGINE FRONT INSTALLATION

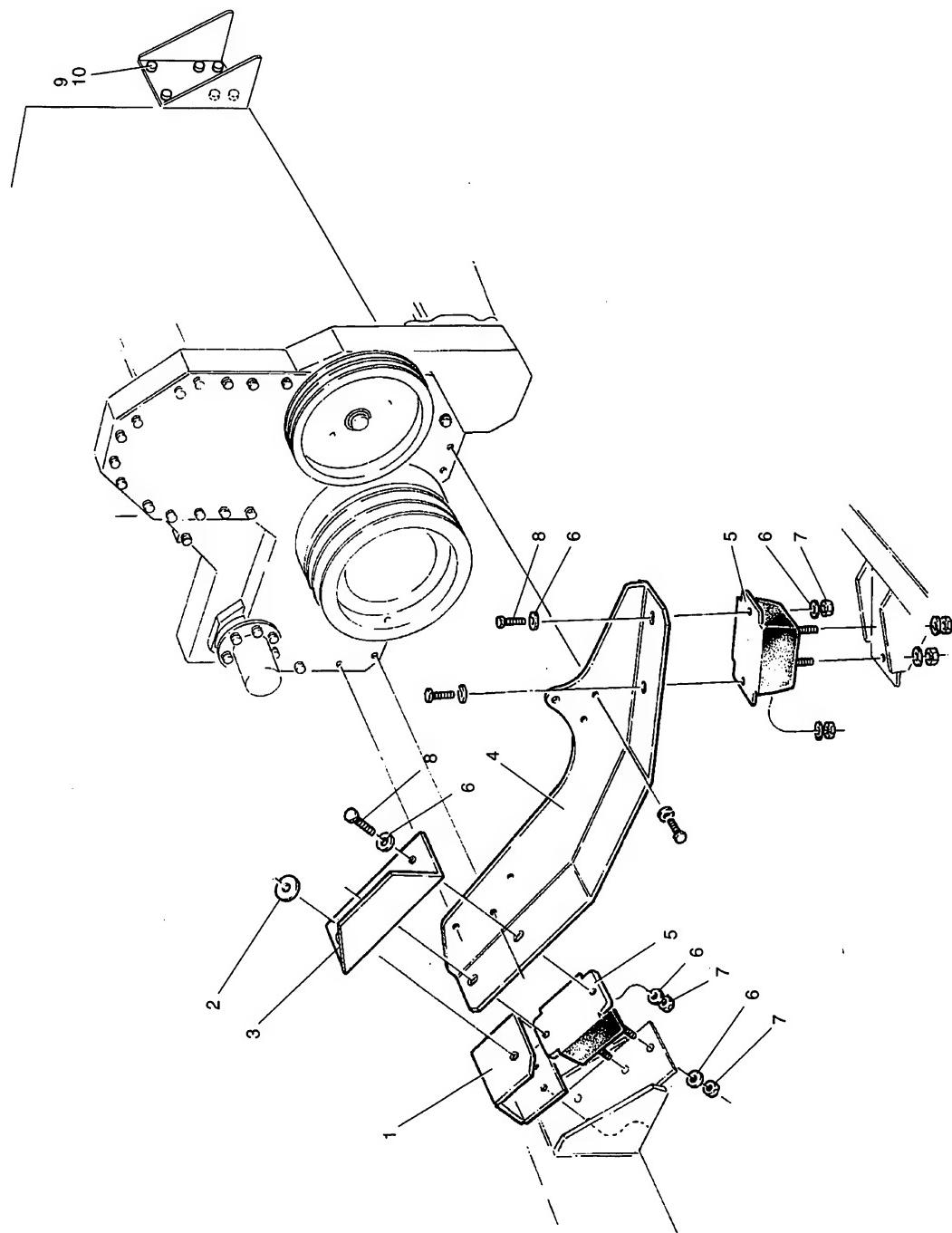


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02/01

MOUNTING, ENGINE FRONT INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
MOUNTING, ENGINE FRONT INSTALLATION				
1		1	010735442	BRACKET, ENGINE MOUNT FLYWHEEL HOUSING LH
2		1	010735426	BRACKET, ENGINE MOUNT FLYWHEEL HOUSING RH
3		12	BS-4122260	SCREW, HX HD 3/4-10 UNC X 1-1/2 GR8
4		12	BS-4520128	WASHER, LOCK 3/4
5		2	BS-4132251	BOLT, HX HD 5/8-18 UNF X 4-1/4 GR8
6		2	BS-4500210	WASHER, FLAT 5/8 (HARDENED)
7		2	010721404	MOUNT, ENGINE
8		8	BS-4132158	SCREW, HX HD 3/8-24 UNF X 1.25" GR8
9		14	BS-4520122	WASHER, LOCK 3/8 ZN PL STL
10		2	BS-4500202	WASHER, FLAT 5/8" (HRD)
11		2	BS-4202423	LOCKNUT, NYLON 5/8-18 UNF GR8
* 12		2	010721054	WASHER, REBOUND
<i>* Indicates item not shown on illustration</i>				

MOUNTING, ENGINE REAR INSTALLATION



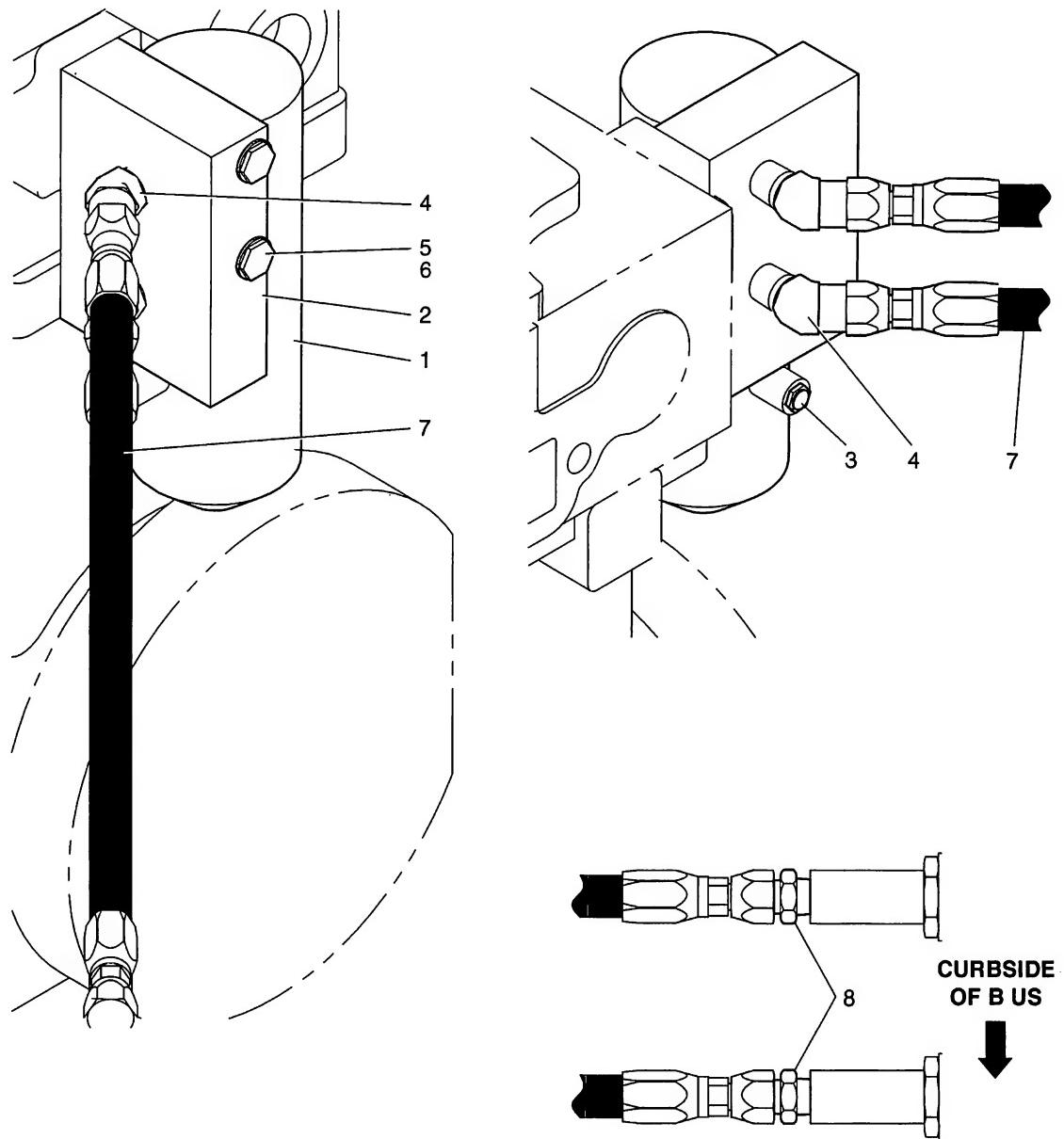
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11/00

MOUNTING, ENGINE REAR INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
				MOUNTING, ENGINE REAR INSTALLATION
1		1	050735440	STOP, REBOUND
2		1	050735103	WASHER, THREADED
3		1	010735132	ARM, REBOUND
4		1	050735412	BRACKET, REAR ENGINE WELDMENT
5		2	050735414	MOUNT, REAR RUBBER
6		12	BS-4500121	WASHER, HARD 5/16"
7		8	BS-4200505	NUT, STOVER 5/16"-18
8		4	BS-4122138	SCREW, 5/16" -18
9		12	BS-4122260	SCREW, 3/4" - 10
10		12	BS-4520128	WASHER, LOCK 3/4"

* Indicates item not shown on illustration

GOVERNOR, AIR COMPRESSOR



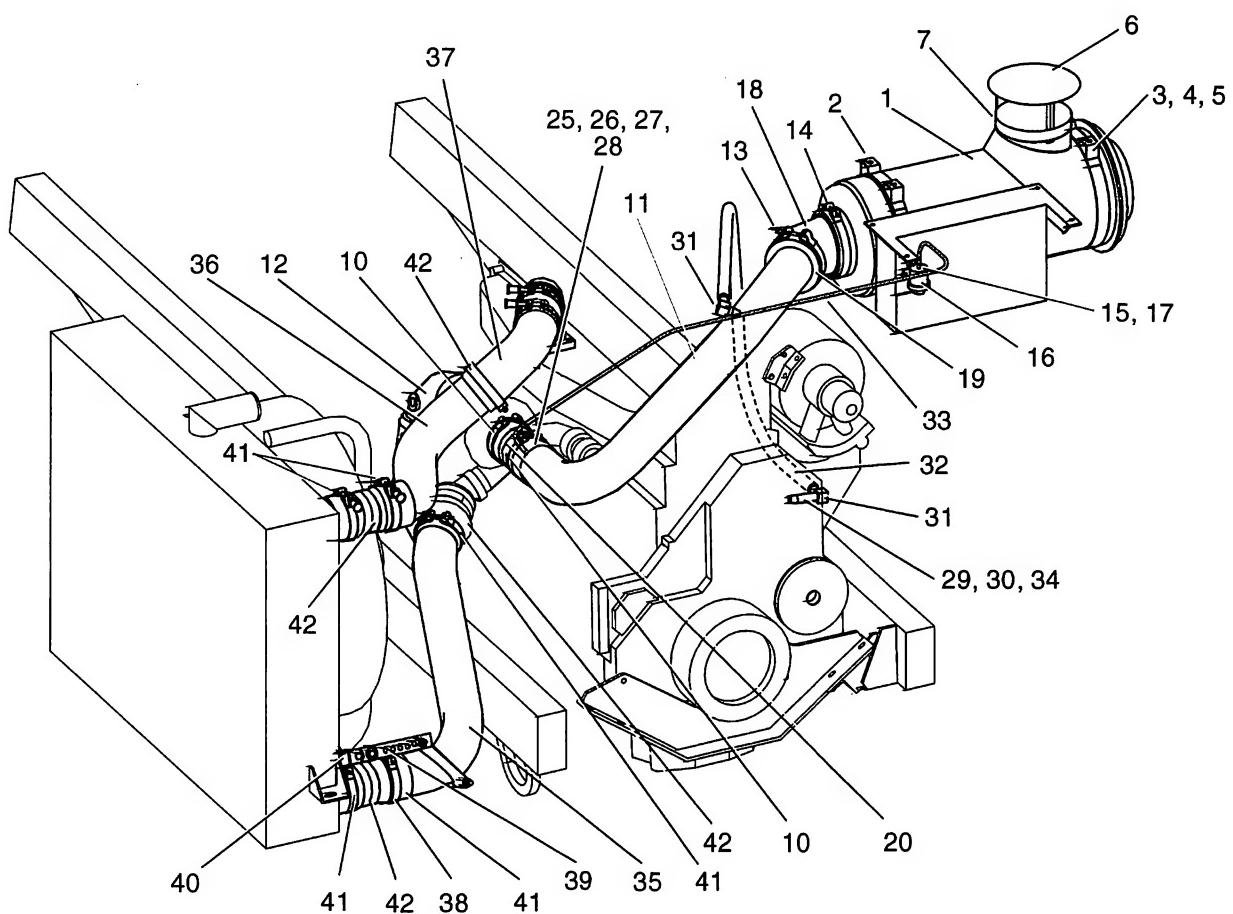
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GOVERNOR, AIR COMPRESSOR

REF	REV	QTY	PART NO	DESCRIPTION
	A		SK1000-0030	GOVERNOR, AIR COMPRESSOR
1		1	051207501	GOVERNOR ASSEMBLY, D2 HI - TEMPERATURE
2		1	010710016	GASKET, AIR COMPRESSOR GOVERNOR
3		1	051207001	BREATHER, GOVERNOR
4		2	BS-6002402	ELBOW, 45° M 1/8"P
5		2	BS-4121143	SCREW, HEX HEAD 5/16"-18NC 2-3/4"
6		2	BS-4535108	WASHER, INSTAR 5/16"
7		2	050912523	HOSE ASSEMBLY, # 4 TEFLON 34" LONG
8		2	BS-6002007	COUPLING, STRAIGHT 1/4" NPT MALE

* Indicates item not shown on illustration

AIR INTAKE, INSTALLATION (ISM ENGINES)



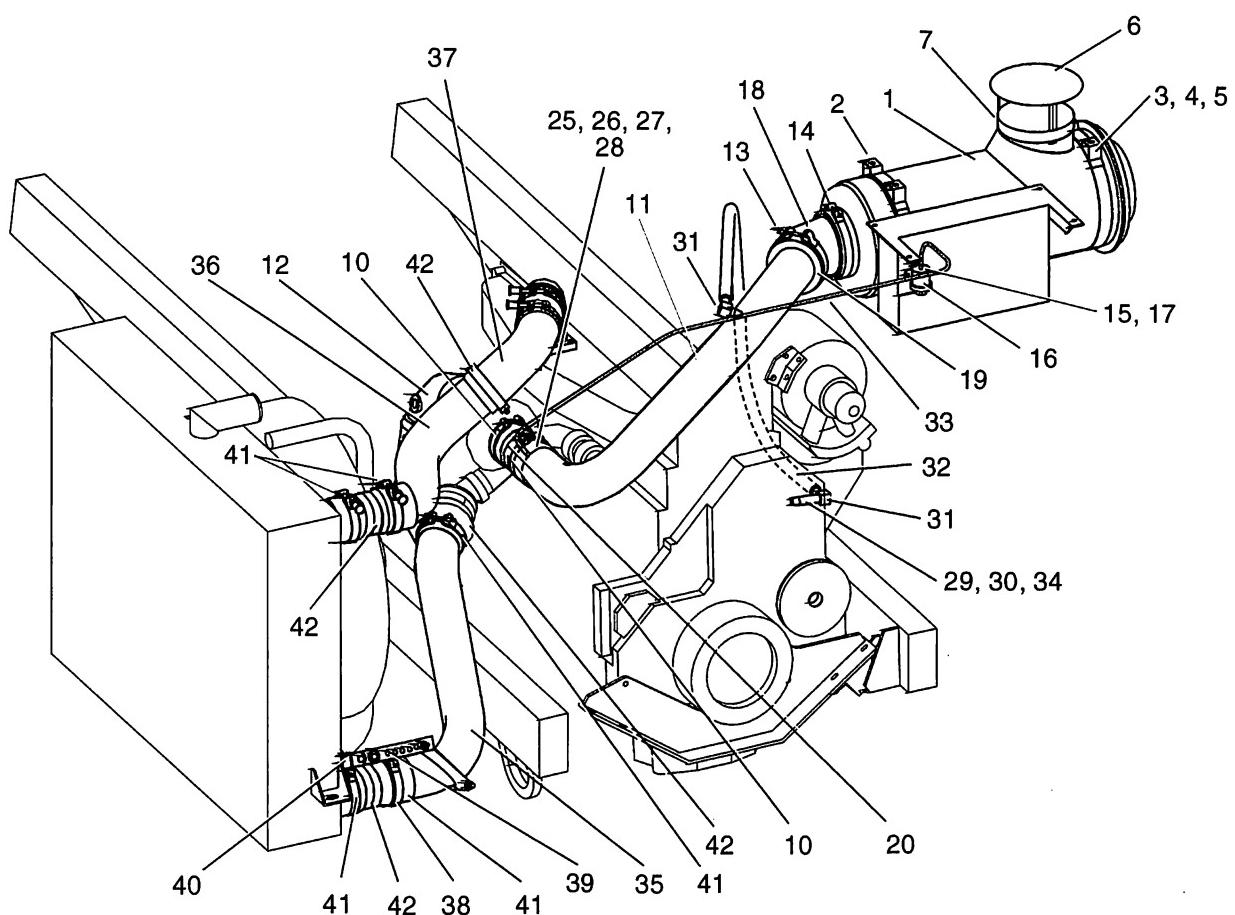
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AIR INTAKE, INSTALLATION (ISM ENGINES)

REF	REV	QTY	PART NO	DESCRIPTION
	A		SK1100-0023	AIR INTAKE, INSTALLATION (ISM ENGINES)
	NR		SK1100-0046	AIR INTAKE INSTALLATION
	NR		SK1100-0047	AIR INTAKE INSTALLATION
1		1	050742512	CLEANER, AIR MODIFIED
* 1A		1	A0742507AC	ELEMENT, AIR CLEANER
* 1B		1	A0742507AD	GASKET
* 1C			A0742507AE	COVER, AIR CLEANER
2		2	010742016	BAND, AIR CLEANER MOUNTING
3		3	BS-4121139	SCREW, HEX HD 5/16"-18NCX1-3/4" ZN PL
4		5	BS-4500121	WASHER, 5/16" ZINC PLATTED
5		2	BS-4202305	NUT, NYLOCK 5/16" 18NC
6		1	050742403	COVER, RAIN AIR INTAKE
7		1	BS-6200428	CLAMP, T-BOLT 6-1/2" SS
* 8		4	BS-4202306	NUT, NYLOCK 3/8"-16NC
* 9		4	BS-4204506	NUT, HEX 3/8"-18 UNC
10		4	050742112	CLAMP, FLEX-SEAL 4"
11		1	050742140	PIPE, AIR CLEANER TO TURBO
12		1	050742099	ELBOW, 90° RUBBER AIR INTAKE
13		1	BS-6202523	CLIP, T-BOLT SPRING LOADED
14		1	BS-6202528	T-BOLT, CLIP-SPRING LOADED
15		1	BS-6000461	ELBOW, 90° - 1/8" NPT BRASS
16		1	050742517	INDICATOR, AIR FILTER 25" KIT
17		1	BS-6111251	COUPLER, 1/8" NPT F/M BARB (BRASS)
18		1	050742093	ELBOW, REDUCING RUBBER 6" 45°
19		1	050742095	INSERT, 5" TO 4"
20		1	050742016	HOSE, STR HUMP 4.0" X 4.0"
* 21		1	050742088	PIPE, AIR CLEANER TO ENGINE
* 22		1	050742134	BRACKET, LOWER AIR INTAKE
* 23		2	BS-4181459	BOLT, M10 X 1.5 X 30 MM
* 24		2	BS-4500105	WASHER, FLAT # 12
25		1	050742092	CLAMP, LOW AIR CHARGE PIPE
26		1	BS-4128116	SCREW, HX HD 1/4"- 20 X 1" SS
27		1	BS-4202504	NUT, NYLOCK 1/4-20 NC SS
28		4	BS-4501120	WASHER, FLAT (1/4") SS
29		1	010710008	MANIFOLD, AIR INTAKE
30		2	BS-4122139	BOLT, HX HD 5/16" NC X 1-3/4"

* Indicates item not shown on illustration

AIR INTAKE, INSTALLATION (ISM ENGINES)



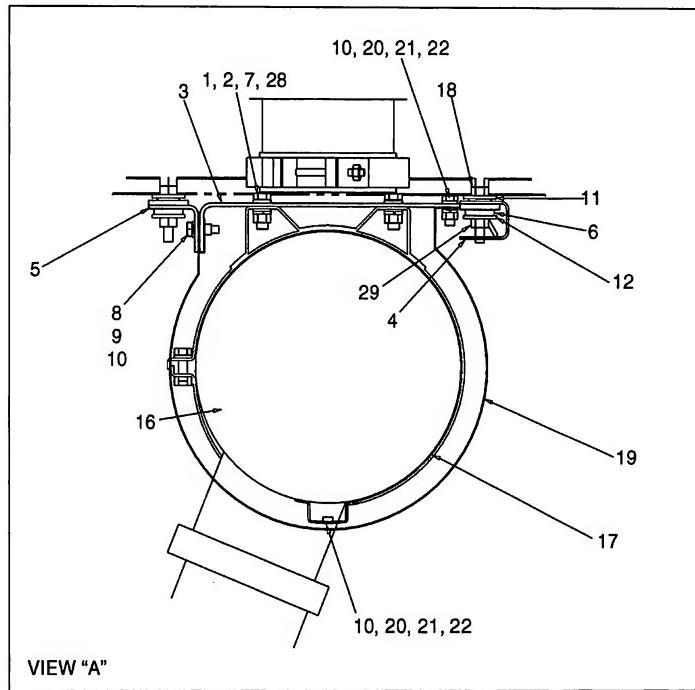
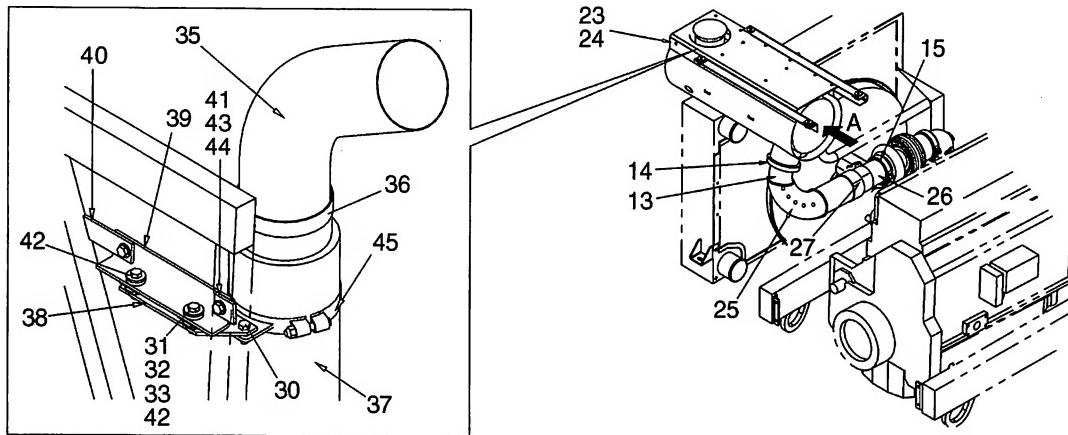
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AIR INTAKE, INSTALLATION (ISM ENGINES)

REF	REV	QTY	PART NO	DESCRIPTION
31		2	BS-6002312	ELBOW, 90° 3/4" P X 3/4"
32		1	050710503	HOSE ASSEMBLY, AIR COMPRESSOR SUPPLY
33		AR	BS-2611202	TUBE, RUBBER 1/8" DIA SYNTHETIC.
34			050710601	VALVE, CHECK COMPRESSOR INLET
35		1	050742139	PIPE, ENGINE CAC LOWER
36		1	050742138	PIPE, CAC RADIATOR OUTLET
37		1	050742437	PIPE, CAC ENGINE INLET ISM
38		1	BS-6205309	CLAMP, U-BOLT 4" HEAVY DUTY
39		1	050774277	STRAP, RETENTION
40		1	050774276	BRACKET, MOUNTING
41		8	050742040	CLAMP, FLEX SEAL 4"
42		4	050742132	HOSE, FLEX/CAC 4"IDx8"LG
* 43		1	051029047	SWITCH, TEMP N.C. 150°F

* Indicates item not shown on illustration

EXHAUST SYSTEM (ISM ENGINE)



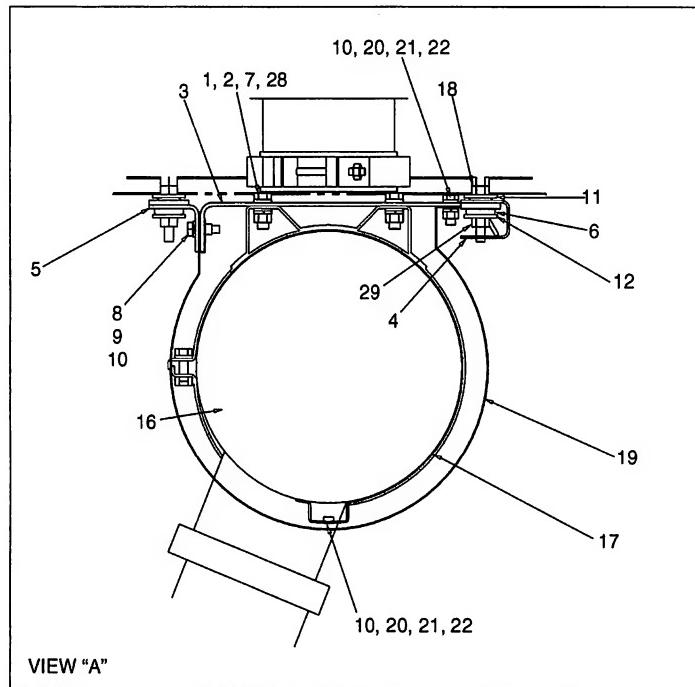
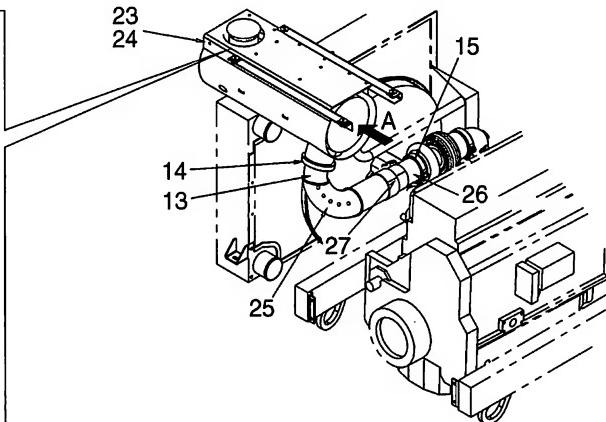
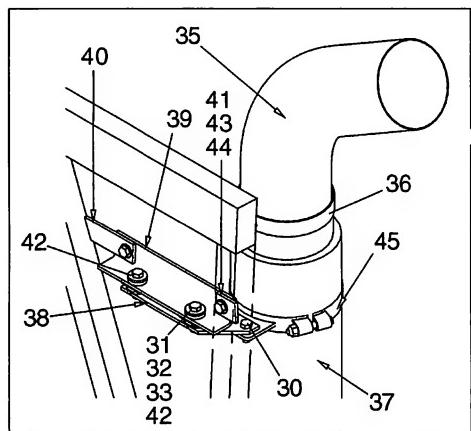
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EXHAUST SYSTEM (ISM ENGINE)

REF	REV	QTY	PART NO	DESCRIPTION
EXHAUST SYSTEM (ISM ENGINE)				
1		8	BS-4121156	SCREW, HX HD 3/8"16 NCX1.00"
2		8	BS-4521122	WASHER, LOCK 3/8" ZN PL
3		1	050774240	MOUNTING, HEAT SHIELD TOP
4		1	050774258	SUPPORT, HEAT SHIELD SIDE
5		1	050774259	SUPPORT, HEAT SHIELD SIDE
6		4	060774029	MOUNTING, CATALYTIC MUFFLER
7		8	BS-4208116	NUT, HEX 3/8"18 UNC
8		10	BS-4221121	PANEL, NUT EXTRUDED
9		10	BS-4121136	SCREW, 5/16"18 NC X 1.0 ZN PL
10		18	BS-4521121	WASHER, LOCK, 5/16" STEEL
11		4	050774248	WASHER, LORD
12		4	050774249	WASHER, LORD
13		1	050775417	PIPE, EXHAUST MUFFLER SIDE
14		1	050774247	CLAMP, V BAND 5" DIA
15		1	050774269	CLAMP, V BAND 4" DIA
16		1	050774287	MUFFLER, M11 VERT. EXH
17		2	050774236	CLAMP, MUFFLER 10.18"
18		4	050774256	SPACER
19		1	050774239	SHIELD, HEAT MUFFLER
20		8	BS-4128134	SCREW, HEX HEAD 5/16" 18 NC X 0.75 ZN PL
21		8	BS-4500121	WASHER, 5/16" FL CAD ZINC
22		8	BS-4208115	NUT, 5/16" NC SS
23		1	050775403	CAP, HEAT SHIELD
24		3	BS-4456421	RIVET, 1/8" DIA X 0.21 LG
25		1	050774266	BLANKET, INSULATION EXHAUST PIPE
26		1	050775418	PIPE, EXHAUST ENG SIDE
27		1	050774311	BAND, SEAL CLAMP
28		8	BS-4501122	WASHER, FLAT 3/8" SS
29		8	BS-4200306	LOCKNUT, STOVE 5/16" NC
30		4	BS-4121156	SCREW, HXHD 3/8"16 NCX1.00"

* Indicates item not shown on illustration

EXHAUST SYSTEM (ISM ENGINE)



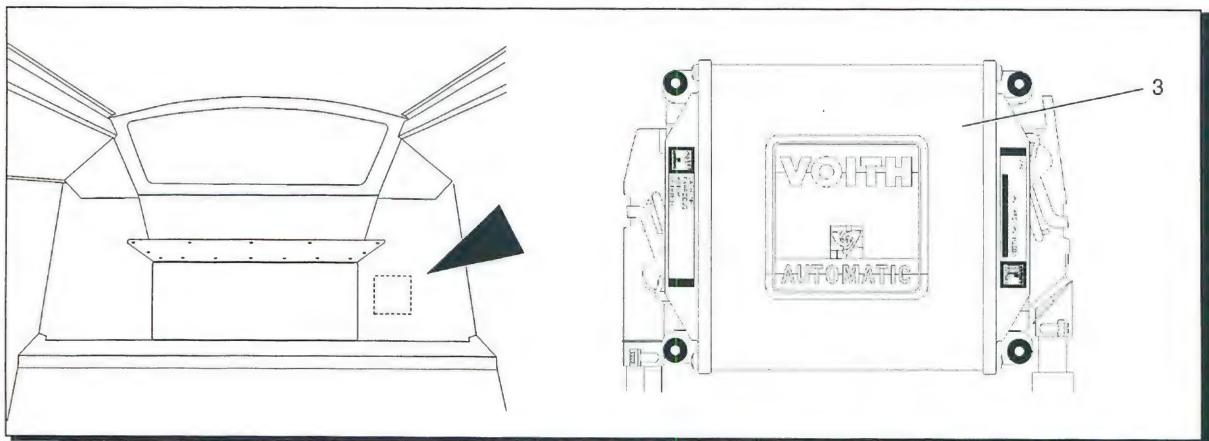
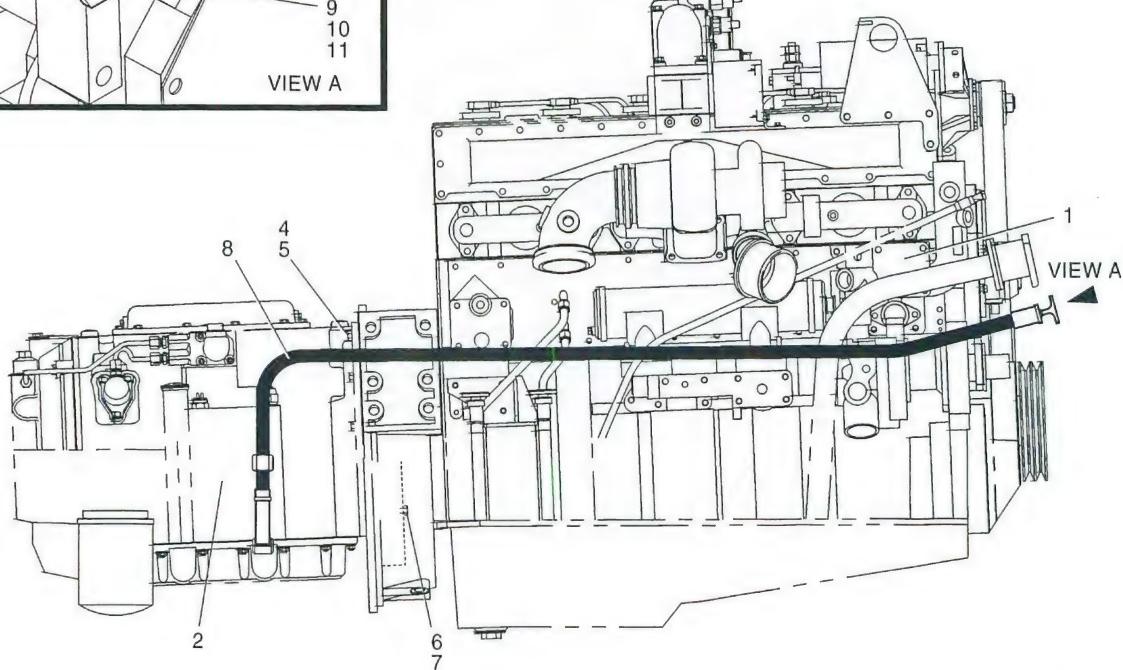
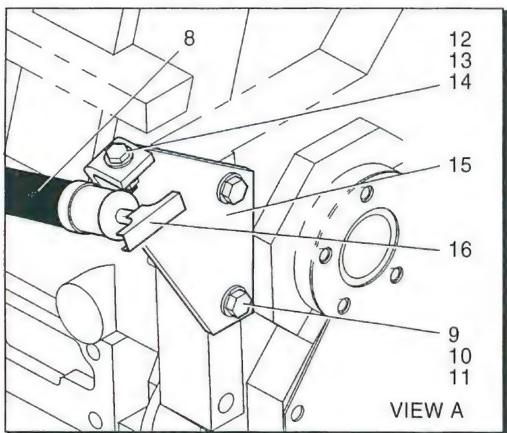
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EXHAUST SYSTEM (ISM ENGINE)

REF	REV	QTY	PART NO	DESCRIPTION
31		2		NOT APPLICABLE
32		2		NOT APPLICABLE
33		2		NOT APPLICABLE
*34		1		NOT APPLICABLE
35		1	050774275	CLAMP, ACCUSEAL 5" DIA
36			050774304	PIPE, TAIL ISM/96" BUS
37		1	050774237	STACK, MUFFLER NELSON
38		1	050774292	BRACKET, UPPER STACK MOUNTING
39		1	050775416	ANGLE, BRACKET ASSEMBLY UPPER ST
40		1	051441008	BRACKET, MUFFLER MOUNTING FWD S/ST
41		1	051441005	BRACKET, MUFFLER MOUNTING AFT S/S
42		2	BS-4121158	SCREW, HX HD 3/8NC X 1 1/2 G
43		6	BS-4200306	NUT, STOVER 3/8 NC
44		6	BS-4500211	WASHER, FLAT 3/8" (HRD)
45		AR	050775409	CLAMP, STACK SUPPORT

* Indicates item not shown on illustration

ENGINE AND TRANSMISSION INSTALLATION

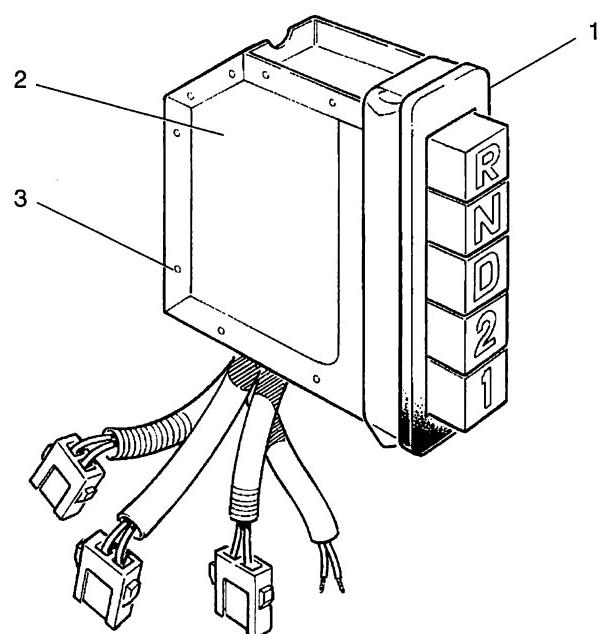


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12/00

ENGINE AND TRANSMISSION INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
ENGINE AND TRANSMISSION INSTALLATION				
1		1	050502583	ENGINE, ISM 280 HP DIESEL
2		1	050616516	TRANSMISSION, 3 SPEED WITH RETARDER
3		1	050616517	UNIT, ELECTRONIC CONTROL TRANSMISSION
4		12	BS-4122158	SCREW HEX HEAD 3/8"-16 NC
5		12	BS-4520122	WASHER, LOCK 3/8"
6		12	BS-4122178	SCREW, HEX HEAD 7/16" -14 NC GR 8
7		12	BS-4520123	WASHER, LOCK 7/16" ZP
8		1	050708504	DIPSTICK ASSEMBLY, VOITH/CUMMINS
* 8A		1	050708404	.TUBE, DIPSTIC
* 8B		1	050708405	.DIPSTICK, TRANSMISSION
9		2	BS-4121162	SCREW, HEX HEAD 3/8" NC
10		4	BS-4500211	WASHER, FLAT 3/8" HARD
11		2	BS-4202306	NUT, NYLOCK 3/8"
12		1	BS-4121113	SCREW, HEX HEAD 1/4"-20
13		1	BS-4202304	NUT, NYLOCK 1/4" - 20 NC
14		2	BS-4500120	WASHER, FLAT 1/4" CZPL
15		1	050907025	BRACKET, DIPSTICK CUMMINS
16		1	BS-5202750	CLAMP, 1.0" DIA HI-TENMP
<i>* Indicates item not shown on illustration</i>				

SHIFTER, TRANSMISSION DRIVE



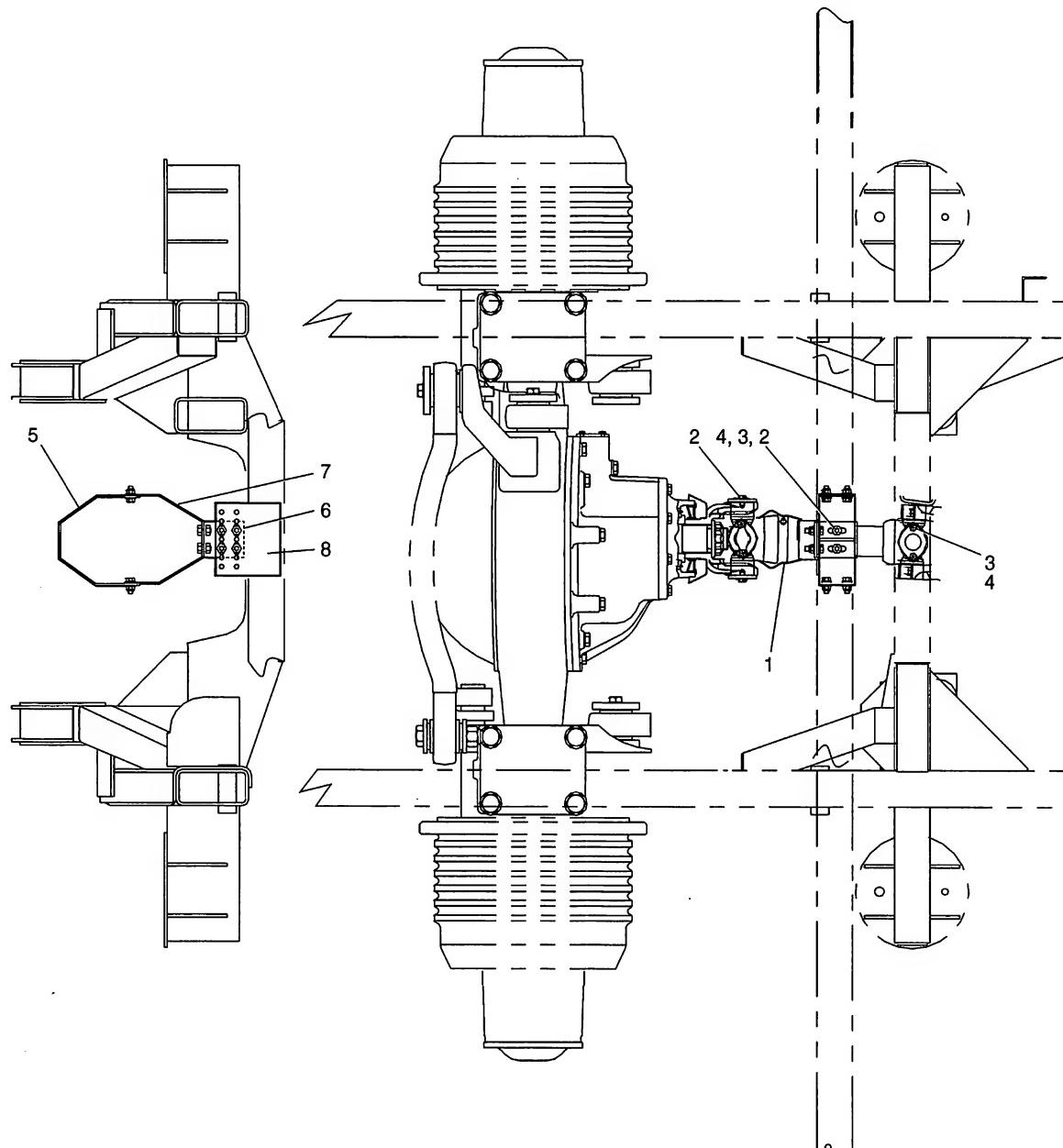
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05/01

SHIFTER, TRANSMISSION DRIVE

REF	REV	QTY	PART NO	DESCRIPTION
				SHIFTER, TRANSMISSION DRIVE
1		1	050616533	SHIFTER, TRANSMISSION R/N/D/2/1
2		1	050781401	HOUSING, TRANSMISSION SHIFTER (IP2091)
3		4	BS-4108437	SCREW, MACHINED 32 3/4" PH PA

* Indicates item not shown on illustration

DRIVE SHAFT ASSEMBLY



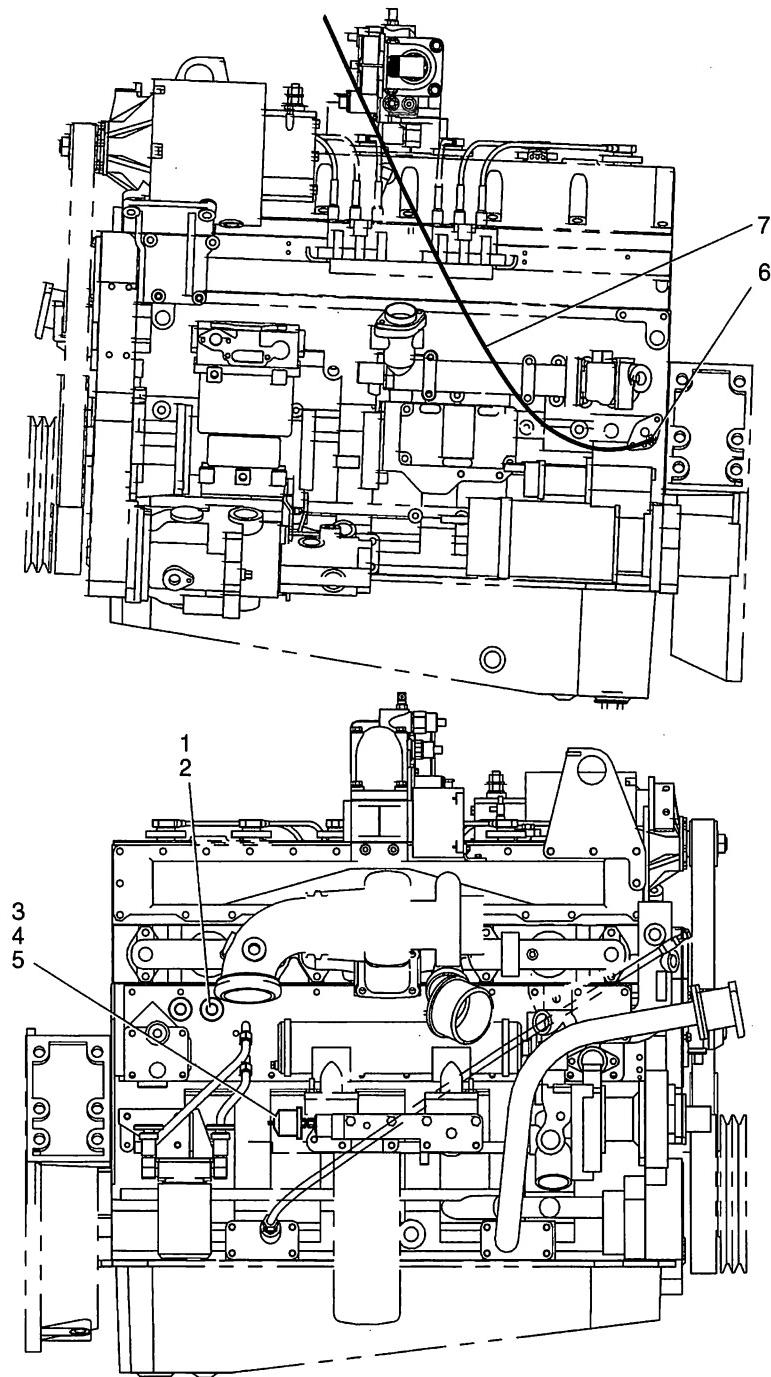
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DRIVE SHAFT ASSEMBLY

REF	REV	QTY	PART NO	DESCRIPTION
	NR		SK1800-8023	DRIVE SHAFT ASSEMBLY
1		1	050705509	DRIVE SHAFT ASSEMBLY
2		1	050705502	STRAP KIT, HALF ROUND
3		4	010705011	BOLT, BEARING PLATE
4		2	050705011	BEARING ASSEMBLY, FLANGED
5		1	050705003	GUARD, UPPER DRIVE LINE HOOP
6		1	050705401	BRACKET, DRIVE SHAFT GUARD
7		1	050705012	HOOP, UPPER DRIVE LINE GUARD
8		1	050705013	BRACKET, DRIVE SHAFT GUARD/FRAME WELDED

* Indicates item not shown on illustration

SENDER, ENGINE FLUID



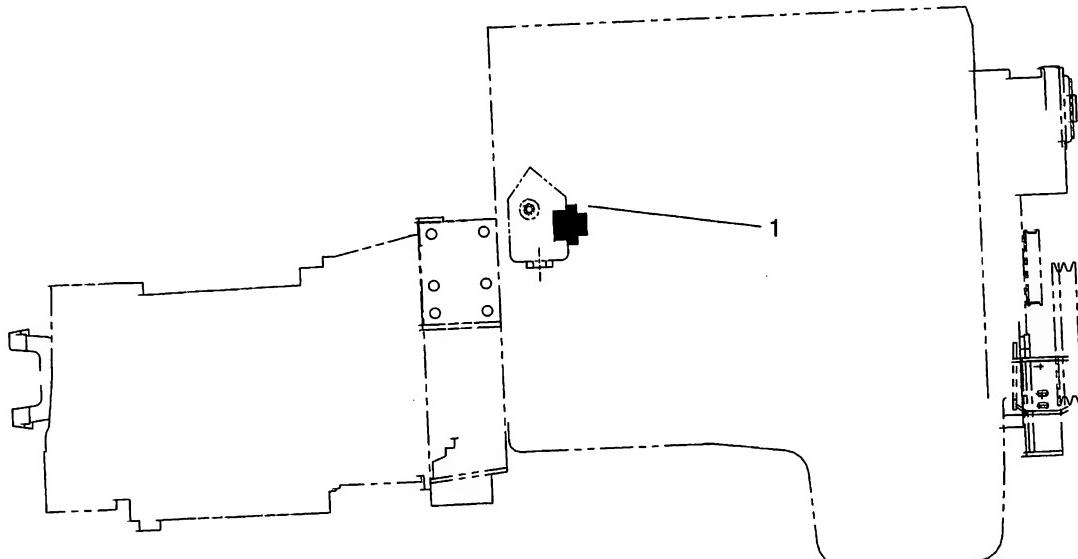
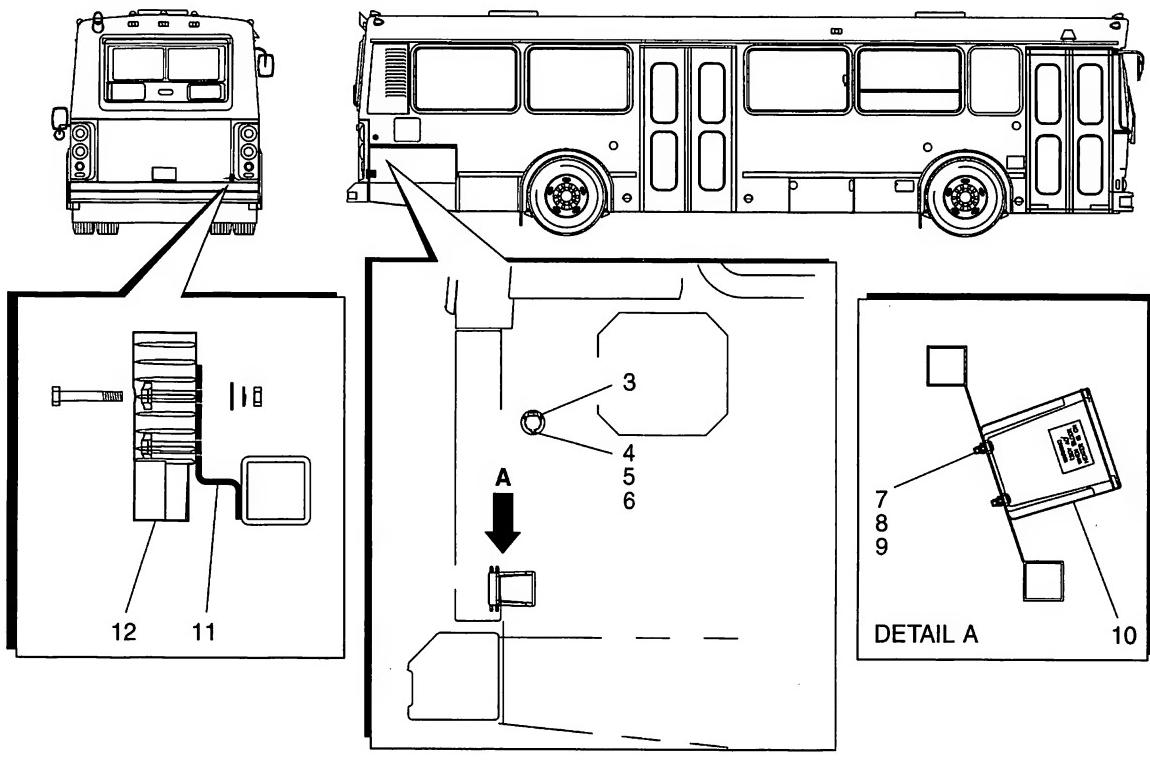
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SENDER, ENGINE FLUID

REF	REV	QTY	PART NO	DESCRIPTION
				SENDER, ENGINE FLUID
1		1	051031033	SENDER, WATER TEMPERATURE 0-900°F
2		1	BS-6000066	ADAPTER, 8PX6P
3		1	051031034	SENDER, OIL PRESSURE 100PSI
4		1	BS-6136302	REDUCER, 9/16"-MALE O-RING
5		1	BS-6000061	BUSHING, BR PIPE 1/4"P
6		1	BS-6002007	ADAPTER, 1/4" MNPT JIC
7		1	040701503	HOSE ASSEMBLY, MODULATOR TEFLON COATED

* *Indicates item not shown on illustration*

STARTING AID SYSTEM



DETAIL OF ENGINE

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05/01

STARTING AID SYSTEM

REF	REV	QTY	PART NO	DESCRIPTION
	NR		SK1000-8030	STARTING AID SYSTEM
1		1	051324550	ELEMENT, BLOCK HEATER 120V/1500W
* 2		AR	051324540	CABLE, BLOCK HEATER 120V
3		1	011324037	HOUSING, BLOCK HEATER
4		3	BS-4108536	SCREW, MACHINED # 10
5		3	BS-4501104	WASHER, FLAT # 10
6		3	BS-4202502	NUT, NYLOCK # 10
7		4	BS-4108436	SCREW, MACHINED # 8
8		4	BS-4501103	WASHER, FLAT # 8
9		4	BS-4202808	NUT, NYLON 8-32
10		1	051039507	RELAY, BLOCK HEATER 120V
11		1	051020509	JUMP START ASSEMBLY
12		1	051480036	CONNECTOR, JUMP START

* Indicates item not shown on illustration

ENGINE AND TRANSMISSION

08.

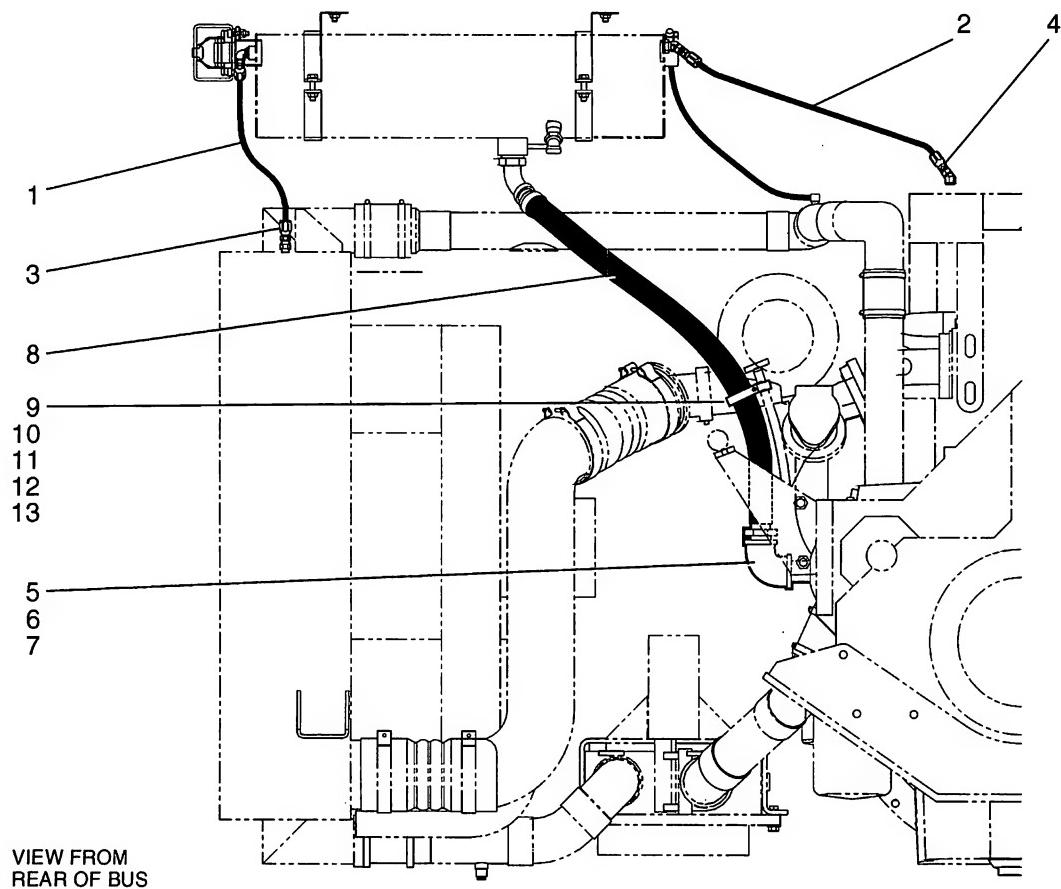
Cooling System

Orion Bus Industries



Section 8: ***COOLING SYSTEM***

HOSES, SURGE TANK



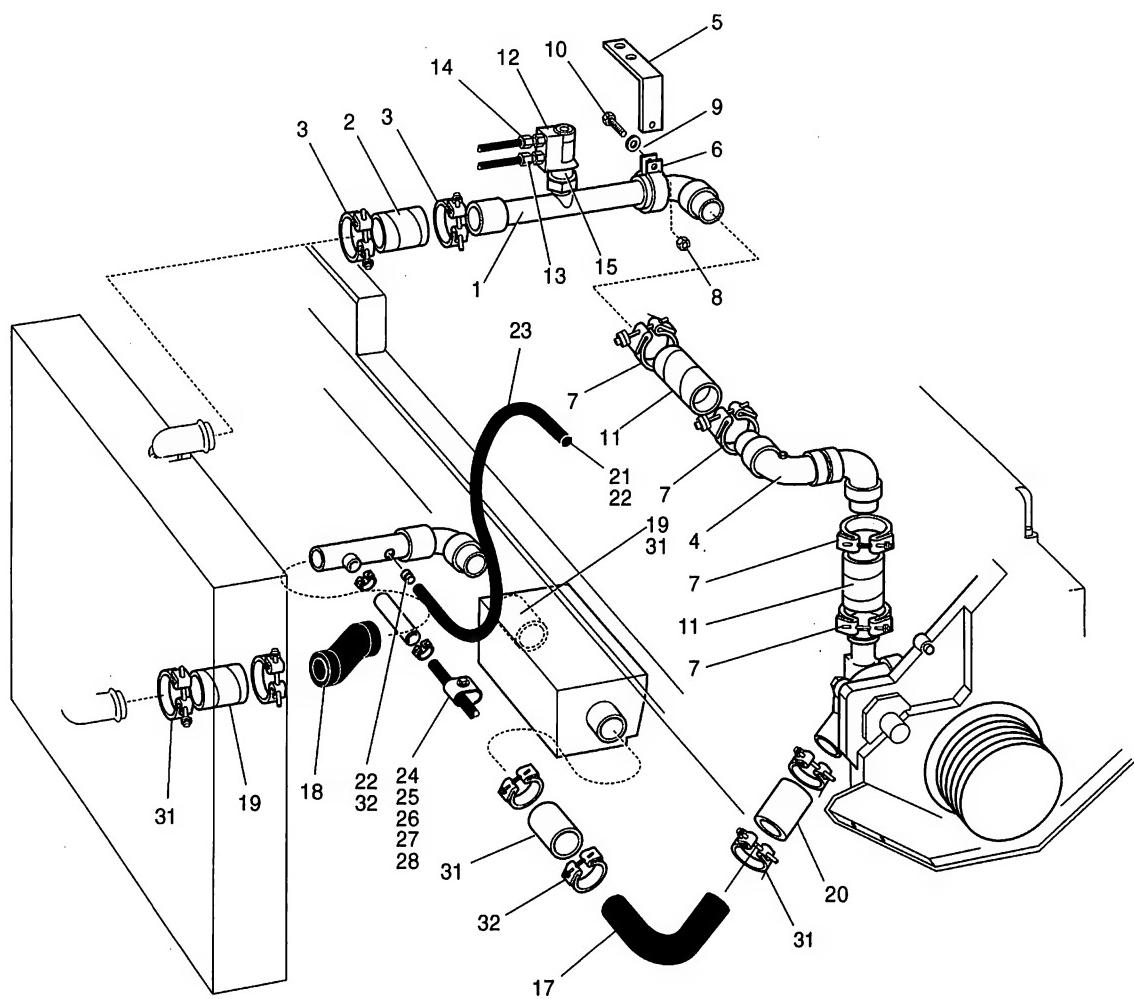
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HOSES, SURGE TANK

REF	REV	QTY	PART NO	DESCRIPTION
			SK1600-0046	HOSES, SURGE TANK
1		1	050904566	HOSE ASSEMBLY, 12" LONG SURGE TANK TO RADIATOR
2		2	050904586	HOSE ASSEMBLY, 22.75" SURGE TANK TO ENGINE VENT POINT
3		1	BS-6002007	CONNECTOR, (4-4S)(MNPT/37 JIC)
4		1	BS-6002404	ELBOW, 45° MALE 1/4" X 1/4P
5		1	BS-6001670	NIPPLE, 1" X 2-1/2" BRASS
6		1	BS-6000366	ELBOW, 90° 1"X 1" FEMALE
7		1	BS-6111226	FITTING, BARB 1" MALEX1"MALE
8		3	BS-2610108	HOSE, SILICONE 1" ID
9		1	BS-5202747	CLAMP, 1/2" DIA HI TEMP
10		1	BS-5202751	CLAMP, 1.13 DIA HI TEMP
11		1	BS-4121116	SCREW, HX HD 1/4"- 20 NC X 1"
12		2	BS-4500120	WASHER, FLAT 1/4"
13		1	BS-4202304	NUT, NYLOCK 1/4-20NC ZPL

* Indicates item not shown on illustration

LINES, COOLANT ENGINES AND TRANSMISSION



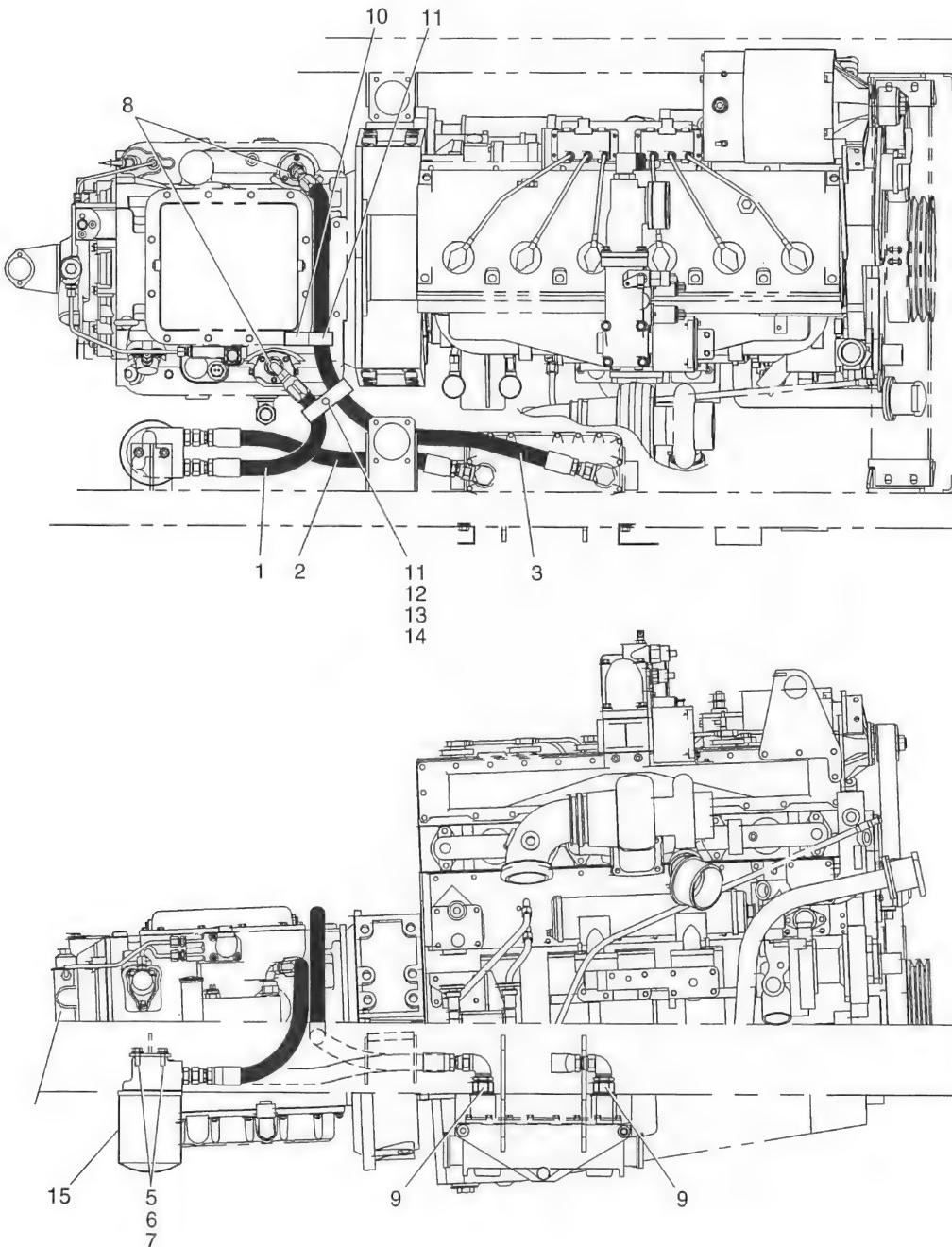
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LINES, COOLANT ENGINES AND TRANSMISSION

REF	REV	QTY	PART NO	DESCRIPTION
LINES, COOLANT ENGINES AND TRANSMISSION				
1		1	050808437	PIPE, ENGINE TO RADIATOR
2		1	BS-2610021	HOSE, SILICONE (2-5/8" ID)
3		2	BS-6200105	CLAMP, CONSTANT TORQUE
4		1	050808436	PIPE, RAD TO ENGINE
5		1	050808045	BRACKET, PIPE
6		1	050808046	STRAP, PIPE
7		5	BS-6200103	CLAMP CONSTANT TORQUE
8		3	BS-4202306	NUT, NYLOCK 3/8 NC
9		3	BS-4500122	WASHER, FLAT 3/8 CDZN PL
10		1	BS-4121156	SCREW, 3/8-16 UNC X 1 GR5 (HX HD)
11		1.5	BS-2610017	HOSE, SILICONE (2.13" ID)
12		1	010717508	VALVE, THERMO 178-187
13		1	BS-6136154	ELBOW (90° 4-6S)
14		1	BS-6139103	CONNECTOR, O-RING # 4
15		1	021143001	GASKET, THERMOSTATIC VALVE
* 16		2	BS-4121114	SCREW, HX HD 1/4"-20X3/4"
17		1	050810430	PIPE, TRANSMISSION COOLER TO ENGINE
18		1	050810431	PIPE, TRANSMISSION COOLER TO RADIATOR
19		3	050808052	HOSE, 2-5/8" ID SILICONE (5" LONG)
20		1	050808048	HOSE, 2-5/8" ID SILICONE (8" LONG)
21		1	BS-6000405	ELBOW 90° 3/4" MNPT
22		1	BS-6111224	FITTING, BARB 3/4" NPT/1" HOSE
23		AR	BS-2610108	HOSE, SILICONE 1" ID
24		1	BS-5202752	CLAMP, HI-TEMPERATURE 1-1/4" ID
25		1	BS-5202750	CLAMP, HI-TEMPERATURE 1" ID
26		1	BS-4121114	SCREW HEX HEAD 1/4"-20X3/4"
27		1	BS-4202304	NUT, NYLOCK1/4"-20
28		2	BS-4500120	WASHER, FLAT 1/4" ZPL
* 29		3	BS-4181510	BOLT, M12 X 1-3/4" X35MM
* 30		3	BS-4525008	WASHER, LOCK 12MM
31		8	BS-6200104	CLAMP, CONSTANT TORQUE 2.2"-3.1"
32		8	BS-6200101	CLAMP, CONSTANT TORQUE 1-1.75""
* 33		1	BS-6000262	PLUG, HEX HEAD 1/4" MNPT

* Indicates item not shown on illustration

LINES, TRANSMISSION OIL COOLER

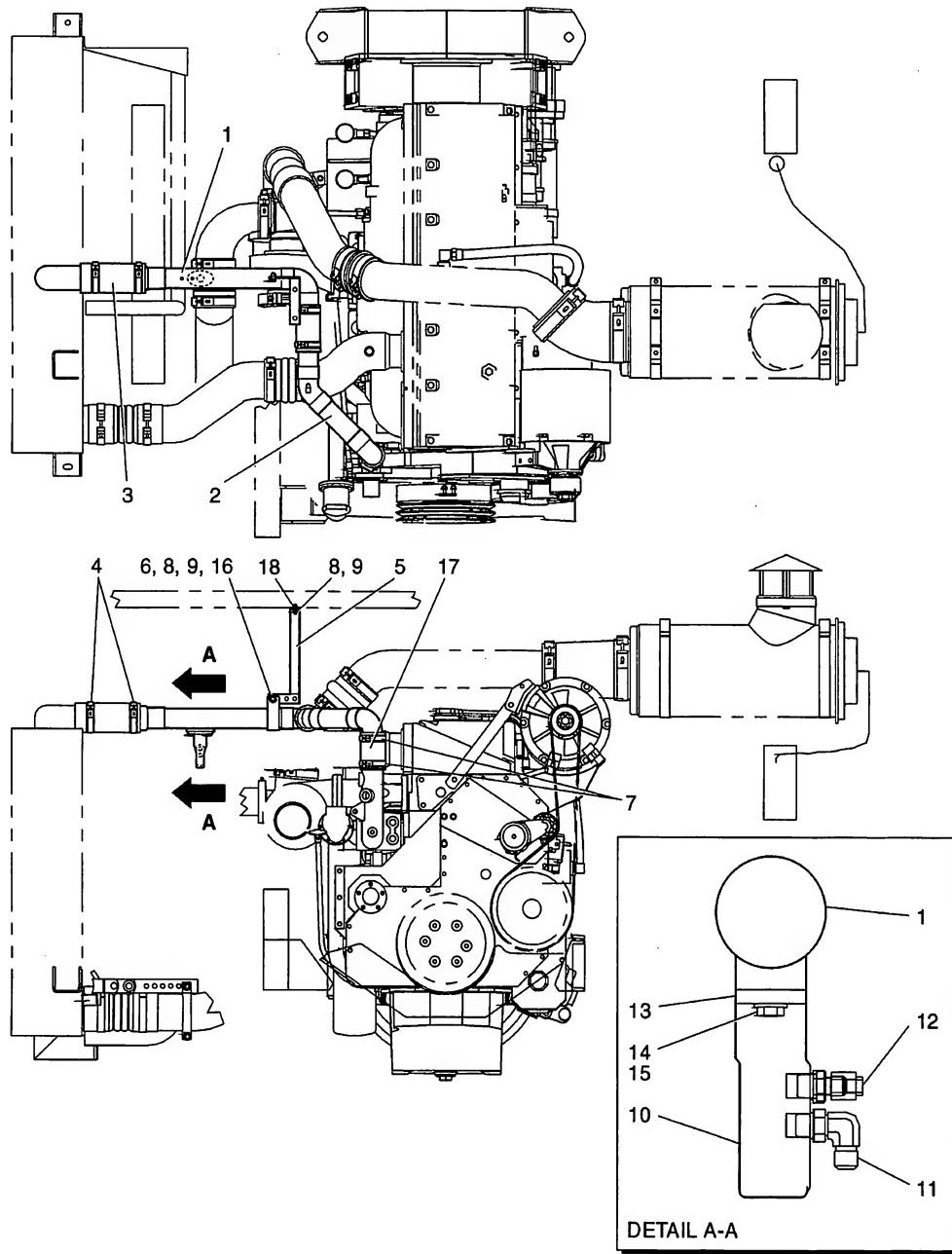
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05/01

LINES, TRANSMISSION OIL COOLER

REF	REV	QTY	PART NO	DESCRIPTION
	C		SK1800-0064	LINES, TRANSMISSION OIL COOLER
1		1	050916554	HOSE ASSEMBLY, TRANSMISSION TO FILTER FC 300
2		1	050916557	HOSE ASSEMBLY, COOLER TO FILTER FC 300
3		1	050916555	HOSE ASSEMBLY, COOLER TO TRANSMISSION FC 300
* 4		1	BS-6140810	ADAPTER, 37°
5		2	BS-4181459	SCREW, METRIC M10X30MM
6		2	BS-4520123	WASHER, LOCK 7/16" ZN PLATTED
7		2	BS-4500123	WASHER, FLAT 7/16" ZN PLATTED
8		2	BS-6139130	CONNECTOR, BOSS 37° FLARE
9		2	BS-6136116	ELBOW, ADJUSTING 90°
10		2	BS-5202753	P-CLAMP, HI TEMPERATURE 1.0" SS
11		2	BS-5202750	P-CLAMP, HI TEMPERATURE 1.5" SS
12		2	BS-4121114	SCREW, HEX HEAD 1/4"-20 NC 3/4"
13		2	BS-4202304	NUT, NYLOCK 1/4"-20 NC
14		2	BS-4500120	WASHER, FLAT 1/4" NOM ZN PLATTED
15		1	E0616516AB	FILTER, TRANSMISSION OIL COOLER
* 16		1	011402447	BRACKET, FILTER

** Indicates item not shown on illustration*

PIPING, UPPER RADIATOR

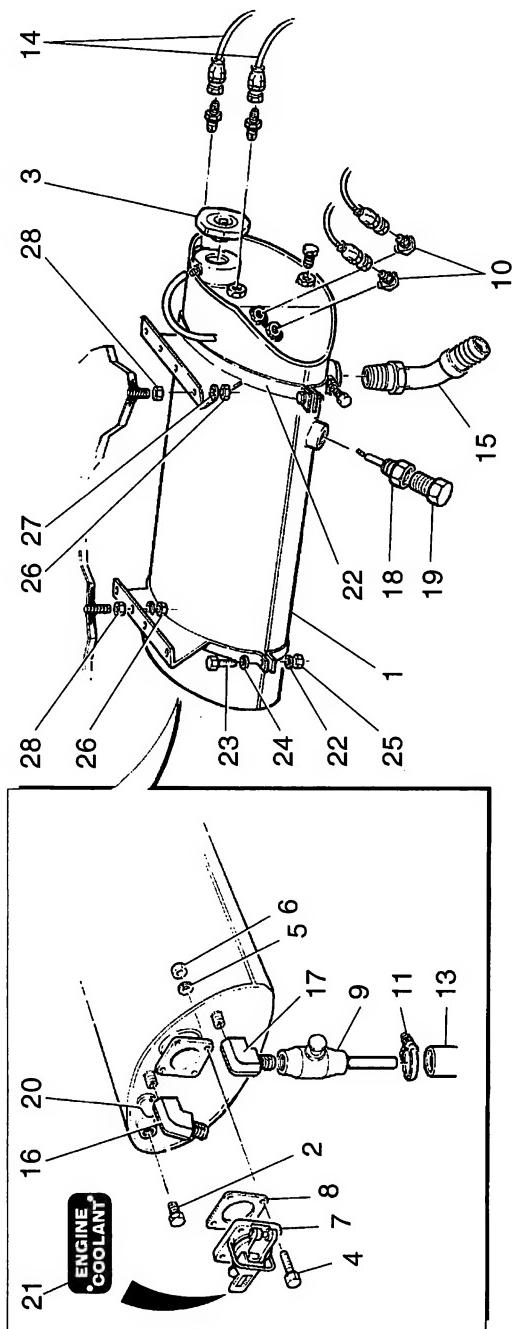
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PIPING, UPPER RADIATOR

REF	REV	QTY	PART NO	DESCRIPTION
	NR		SK1600-8006	PIPING, UPPER RADIATOR
1		1	050808438	PIPE, RADIATOR TO ENGINE
2		1	050808437	PIPE, ENGINE TO RADIATOR
3		AR	BS-2610021	HOSE, SILICONE 2-5/8" BLUE
4		2	BS-6200105	CLAMP, CONSTANT TORQUE
5		1	050808045	BRACKET, PIPE
6		1	050808046	STRAP, PIPE
7		5	BS-6200103	CLAMP, CONSTANT TORQUE
8		3	BS-4202306	NUT, NYLOCK 3/8"-16
9		3	BS-4500122	WASHER, FLAT 3/8" CZPL
10		1	010717508	VALVE, THERMOSTATIC (HOT CLIMATE)
11		1	BS-6136154	ELBOW, 90°
12		1	BS-6139103	CONNECTOR, O-RING
13		1	021143001	GASKET, THERMOVALVE
14		2	BS-4121114	SCREW, HEX HEAD 1/4-20X3/4"
15		2	BS-4520120	WASHER, LOCK 1/4" ZN PLATTED
16		1	BS-4121156	SCREW, HEX HEAD 3/8"-16X1.0"
17		AR	BS-2610017	HOSE, SILICONE 2.13" ID
18		2	BS-4204306	NUT, HEXAGONAL 3/8" NC ZN PLATTED

* Indicates item not shown on illustration

TANK, SURGE (ISM ENGINES)

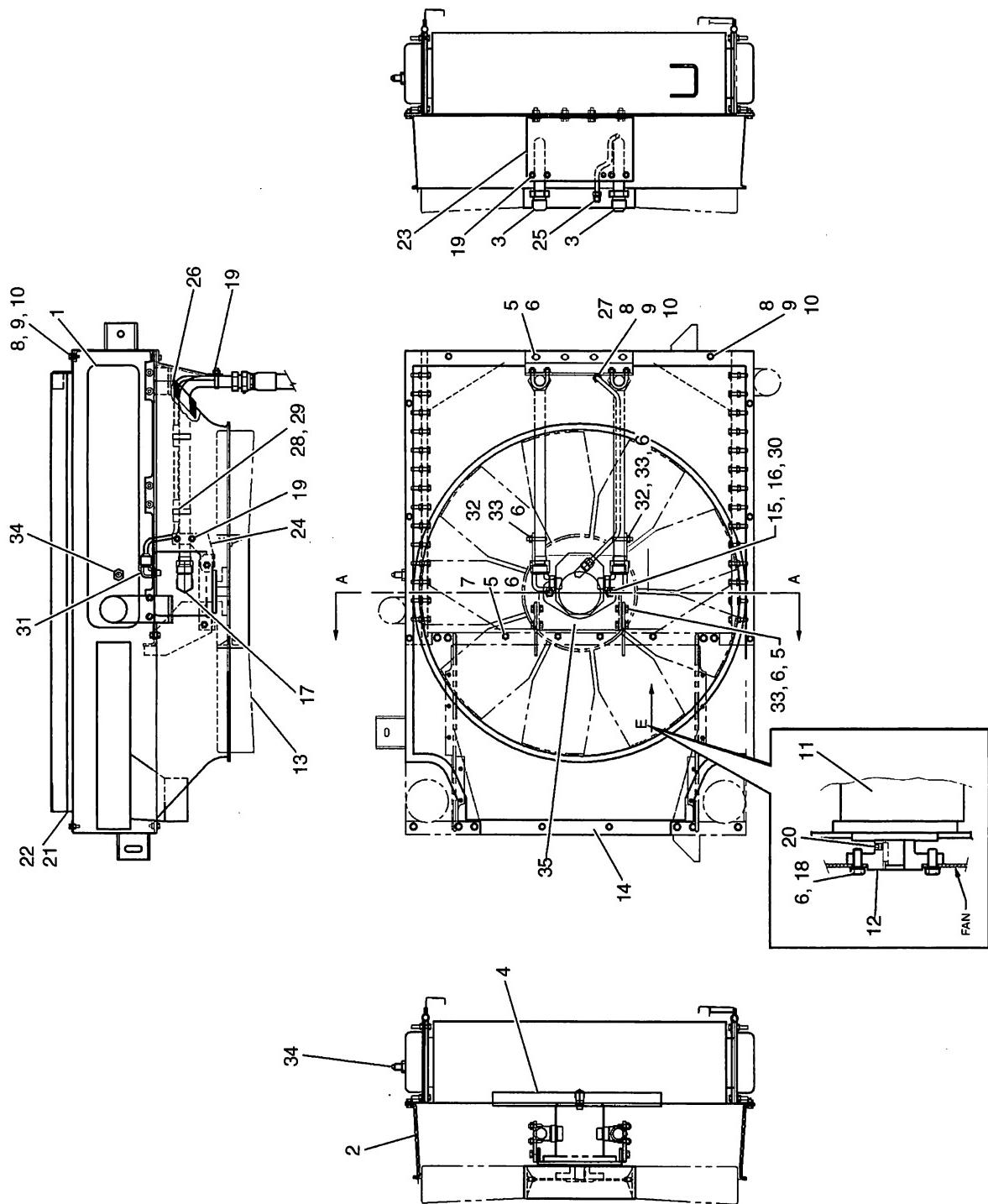


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TANK, SURGE (ISM ENGINES)

REF	REV	QTY	PART NO	DESCRIPTION
	NR		SK1600-0030	TANK, SURGE (ISM ENGINES)
	D		SK1600-0045	INSTALLATION SURGE TANK ISM/3 STACK COOLER
	E		SK1600-0020	INSTALLATION SURGE TANK ISM/3 STACK COOLER
NR	1	1	050804534	INSTALLATION SURGE TANK ISM
1		1	050804424	WELDMENT, SURGE TANK
2		1	BS-6000262	PLUG, BR PIPE HEX HD 1/4" P
3		1	010804040	CAP, PRESSURE RADIATOR 10 PSI
4		4	BS-4121116	SCREW, HXHD 1/4-20 NC X 1"
5		4	BS-4500120	WASHER, FLAT 1/4"
6		4	BS-4202304	NUT, NYLOCK 1/4"-20
7		1	010804503	CAP, FILLER
8		1	010804012	GASKET, RUBBER FILLER CAP
9		1	050804521	VALVE, PUSH BUTTON RELIEF
10		1	BS-6002404	ELBOW, 45° MALE 1/4 X 1/4P
11		1	BS-6001166	NIPPLE, BR PIPE LONG
* 12		1	BS-6200205	CLAMP, HOSE 3/8"
13		3	BS-2612706	HOSE, # 6 SYNTHETIC RUBBER
14		5	BS-2611206	TUBING, 7/32" ID VAC HOSE
15		1	BS-6111307	FITTING, 45° BARB 1" NPT
16		2	BS-6002301	ELBOW, 90° M 1/4P X 7/16
17		1	BS-6004020	ELBOW, 90° BRASS PIPE
18		1	BS-6000063	BUSHING, BR PIPE 3/8P
19		1	051028403	SENSOR, WATER LEVEL
20				NOT APPLICABLE
21		1	BS-5500230	DECAL, ENGINE COOLANT
* 21A		1	BS-5500358	DECAL, ENGINE COOLANT PROTECTION
22		2	010804409	BRACKET ASSEMBLY, SURGE TANK MOUNTING
23		2	BS-4121137	SCREW, HHCS 5/16"
24		4	BS-4500121	WASHER, FLAT 5/16"
25		2	BS-4202305	NUT, NYLOCK 5/16"
26		4	BS-4202306	NUT, NYLOCK 3/8"
27		4	BS-4500122	WASHER, FLAT 3/8"
28		4	BS-4204506	HEXNUT, 3/8"-16
<i>* Indicates item not shown on illustration</i>				

COOLING MOUDULE

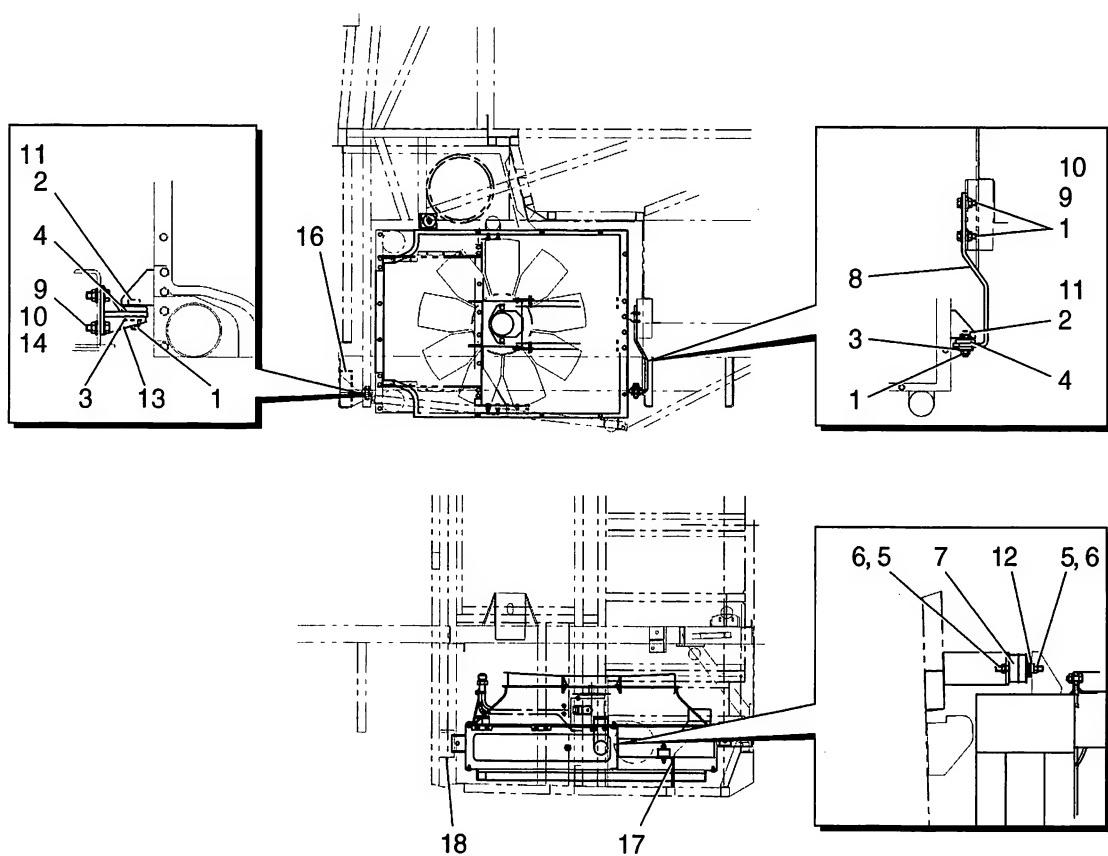


COOLING MOUDULE

REF	REV	QTY	PART NO	DESCRIPTION
	G		050803573	COOLING MOUDULE
1		1	050803554	RADIATOR ASSEMBLY, SIDEXSIDE
* 1A		1	E0803554AC	COOLER, CHARGE AIR (CAC)
2		1	050803189	SHROUD, 30" FAN
3		2	050803478	TUBE, HYDRAULIC 1" OD
4		1	050803482	MOUNT, MOTOR HYDRAULIC
5		12	BS-4125157	BOLT, HEX HD 3/8-16 1.25LG
6		28	BS-4500122	WASHER, FLAT 3/8" C/Z PL
8		20	BS-4125116	BOLT, HEX HD 1/4-20 NC 1"L
7		6	BS-4202306	NUT, NYLOCK 3/8-16NC GR.5
9		20	BS-4500120	WASHER, FLAT 1/4" C/ZPL
10		20	BS-4202304	NUT, NYLOCK 1/4-20NC ZPL G
11		1	050803555	MOTOR, FAN DRIVE
12		1	050803190	HUB, 30" FAN INVERT HYDRAULIC MOTOR
13		1	010803122	FAN, 30" DIA 9 BLADES
14		1	050803175	STRIP, SHIM
15		2	BS-4121198	SCREW, HX HD 1/2NC X 1-1/2 G
16		2	BS-4202308	NUT, NYLOCK 1/2-13NC
17		2	BS-6136120	ELBOW, 90° #20(ORB)/#16(JI)
18		6	BS-4131155	SCREW, HX HD 3/8" 24NF
19		4	050803188	BOLT KIT, FLAT TOP/
20		2	BS-4146235	SCREW, SET SOCKET HEAD 5/16" 24NF
21		1	050803474	SEAL, FRAME
22		8	BS-2600107	SEAL, WEATHER STRAIGHT
23		1	050803186	BRACKET, HYDRAULIC TUBING SUPPORT
24		2	050803187	PLATE, HYDRAULIC TUBE SUPPORT
25		1	050803479	PIPE, DRAIN
26		2	BS-2609106	HOSE, ARMFLEX FOAM 1.13IDX2
27		1	BS-5202702	CLAMP, 0.375 D X.25 STUD
28		2	BS-6200020	CLAMP, HOSE 13/16 TO 1-3/4
29		1	BS-2612706	HOSE, # 6
30		2	BS-4500124	WASHER, FLAT 1/2" C/Z PL
31		1	BS-6136106	ELBOW, 90°6-6S ORB/37JIC
32		2	BS-4125158	BOLT, HEX HD 3/8-16 1.50LG
33		2	BS-4202306	NUT, NYLOCK 3/8-16NC GR.5
34		1	BS-6002007	CONNECTOR (4-4S)(MNPT/37JIC)
35		1	050803481	BRACKET, HYDRAULIC MOTOR MOUNT

* Indicates item not shown on illustration

MOUNTING, RADIATOR



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MOUNTING, RADIATOR

REF	REV	QTY	PART NO	DESCRIPTION
	C		SK1600-0013	MOUNTING, RADIATOR
1		6	BS-4202308	NUT, NYLOCK 1/2-13NC
2		2	BS-4123312	SCREW, HX HD 1/2" NCX2-1/2 G8+
3		4	BS-4500304	WASHER, FLAT 1/2" (TAIL)
4		2	030774402	MOUNTING, RADIATOR SUPPORT
5		2	BS-4500122	WASHER, FLAT 3/8" C/Z PL
6		2	BS-4205403	NUT, NYLOCK M10X1.5 GR.8.8
7		1	050803473	MOUNT ASSEMBLY, RUBBER
8		1	050803174	BRACKET, MOUNT COOLING MODULE
9		7	BS-4121198	SCREW, HX HD 1/2 NC X 1-1/2 G
10		11	BS-4500124	WASHER, FLAT 1/2" C/Z PL
11		2	BS-4500201	WASHER, FLAT 1/2" (HRD)
12		3	BS-4500222	WASHER, 3/8" ID 7/8" OD .085TK G
13		1	050803477	BRACKET, REAR RAD MOUNT
14		3	BS-4202308	NUT NYLOCK 1/2"13NC
* 15		1	050803573	RADIATOR ASSEMBLY, 96"
16		1	051481050	BRACKET, LOWER RADIATOR SUPPORT (SIDEXSIDE)
17		1	051481039	BRACKET, TOP RADIATOR SUPPORT (SIDEXSIDE)
18		1	011402069	BRACKET, FORMED RADIATOR

* Indicates item not shown on illustration

COOLING SYSTEM

09.

Fuel System

Orion Bus Industries



Section 9: ***FUEL SYSTEM***

LINES, FUEL INSTALLATION

ILLUSTRATION NOT AVAILABLE

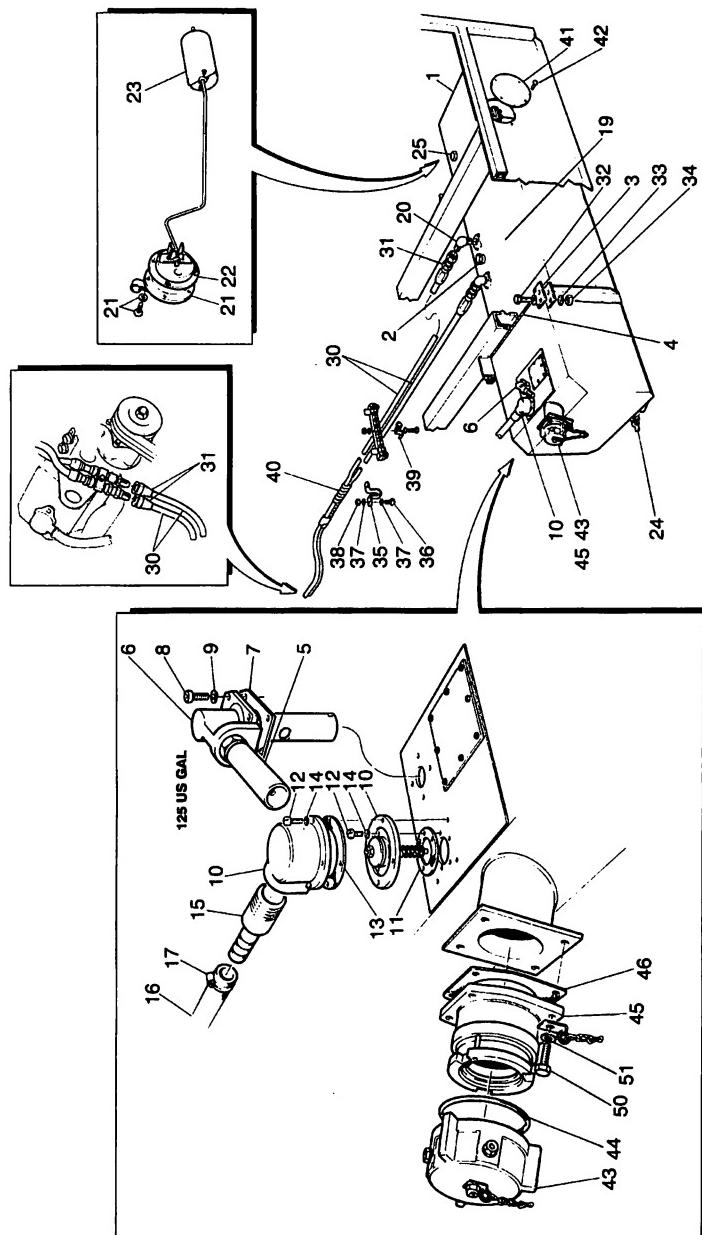
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LINES, FUEL INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
LINES, FUEL INSTALLATION				
* 1		1	050730005	BRACKET, FUEL FILTER L10
* 2		1	010840506	VALVE, CHECK ADAPTER 90°
* 3		1	010730001	VALVE, CHECK FUEL SYSTEM
* 4		1	050910572	HOSE, ASSEMBLY # 10 STR 45
* 5		1	BS-6002706	ADAPTER # 10
* 6		1	BS-6002326	ELBOW, 90° M 3/8"P X 5/8"
* 7		6	BS-4132157	SCREW, HX HD 3/8"X1-1/4"
* 8		4	BS-4520122	WASHER, LOCK 3/8"
* 9		4	BS-4500211	WASHER, FLAT 3/8" (HRD)
* 10		2	BS-4202356	LOCKNUT, NYLON 3/8" UNC GRD

* Indicates item not shown on illustration

FUEL SYSTEM INSTALLATION



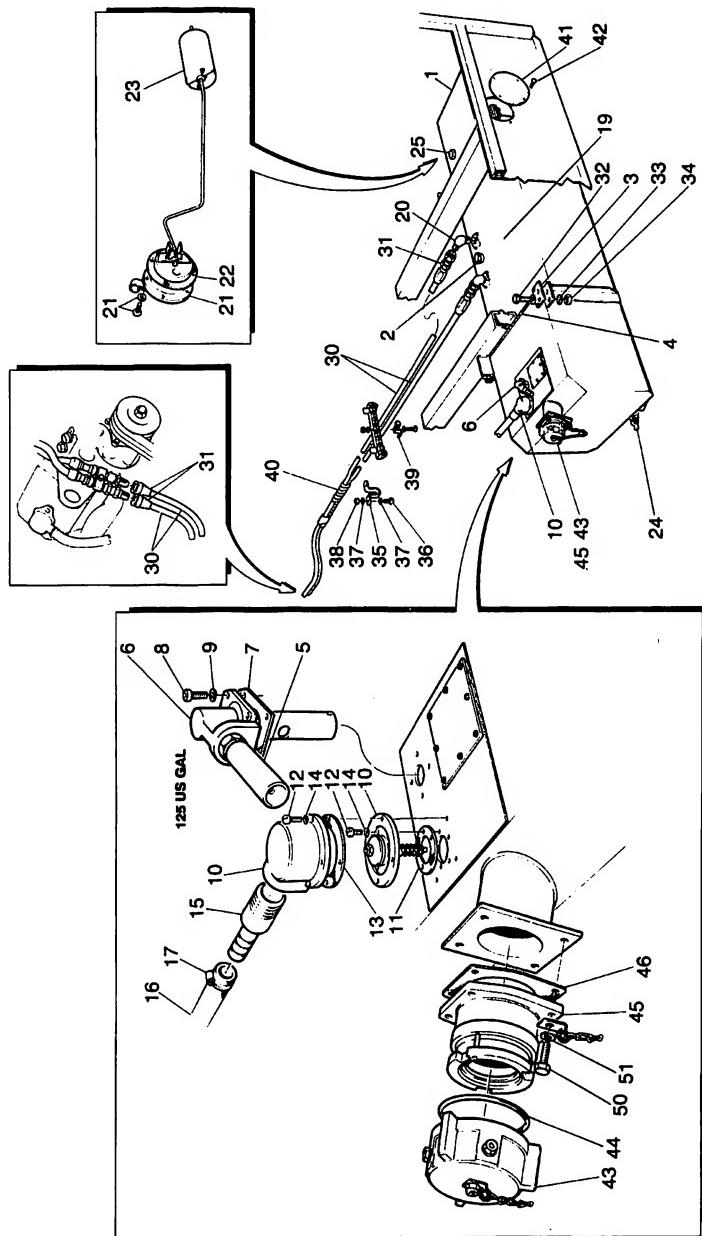
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03/01

FUEL SYSTEM INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
FUEL SYSTEM INSTALLATION				
1		1	010832422	SHELL, FUEL TANK 125 US GALON (FASTFILL)
* 1A		1	050832167	GASKET, FUEL TANK
2		1	BS-6000263	PLUG, 1/2" BRASS
3		4	010832048	MOUNT, RUBBER TANK SUPPORT
4		AR	050832120	SHEET, RUBBER 1/8 X 1-1/2 X 26"
5		1	010832506	WHISTLE, FUEL TANK
* 5A		1	050832532	WHISTLE, EXTENDED 3"
6		1	010832507	VALVE, LEVEL CONTROL
7		1	A0832507AB	.GASKET
8		4	BS-4140195	.SCREW, SOCKET HD #10-24 X 3/4"
9		4	BS-4520104	.WASHER, LOCK #10
10		1	010832505	VALVE, PRESSURE RELIEF
11		1	A0832505AB	.GASKET, MOUNTING
12		9	BS-4140193	.SCREW, #10-24 X 1/2
13		1	A0832505AD	.GASKET, COVER
14		9	BS-4520104	.WASHER, LOCK #10
15		1	010832057	ADAPTER, BARB 1-1/4" GALV
16		AR	BS-2610910	HOSE, FUEL DISCHARGE 1-1/4 ID X 8IN
17		1	BS-6200020	CLAMP, HOSE 13/16 TO 1-3/4
* 18		2	010832416	PIPE ASSEMBLY, FUEL PICKUP/RETURN
19		AR	BS-2146346	TUBE, 11/16" OD X .083 X 13.75" LONG
20		1	BS-6002330	ELBOW, 90° 5/8 X 3/4
21		1	010832555	SENDER ASSEMBLY, FUEL SIDE LOADED
22		1	050832293	GASKET, LEVEL SENDER
23				NOT APPLICABLE
* 23A		1	050832294	PLATE, LEVEL SENDER
24		2	BS-6000264	PLUG, DRAIN 3/8" BRASS
25		2	BS-6000263	PLUG, 3/8" BRASS
26		1	050832401	SPACER 3"
* 27		1	050832579	VALVE ASSEMBLY, CHECK SWING
* 28		1	050832478	.PIPE ASSEMBLY, STAND FUEL TANK
* 29		1	050832164	.VALVE, SWING CHECK 3/4" BRONZE
30		AR	See page 9-3	LINES, FUEL SYSTEM

* Indicates item not shown on illustration

FUEL SYSTEM INSTALLATION

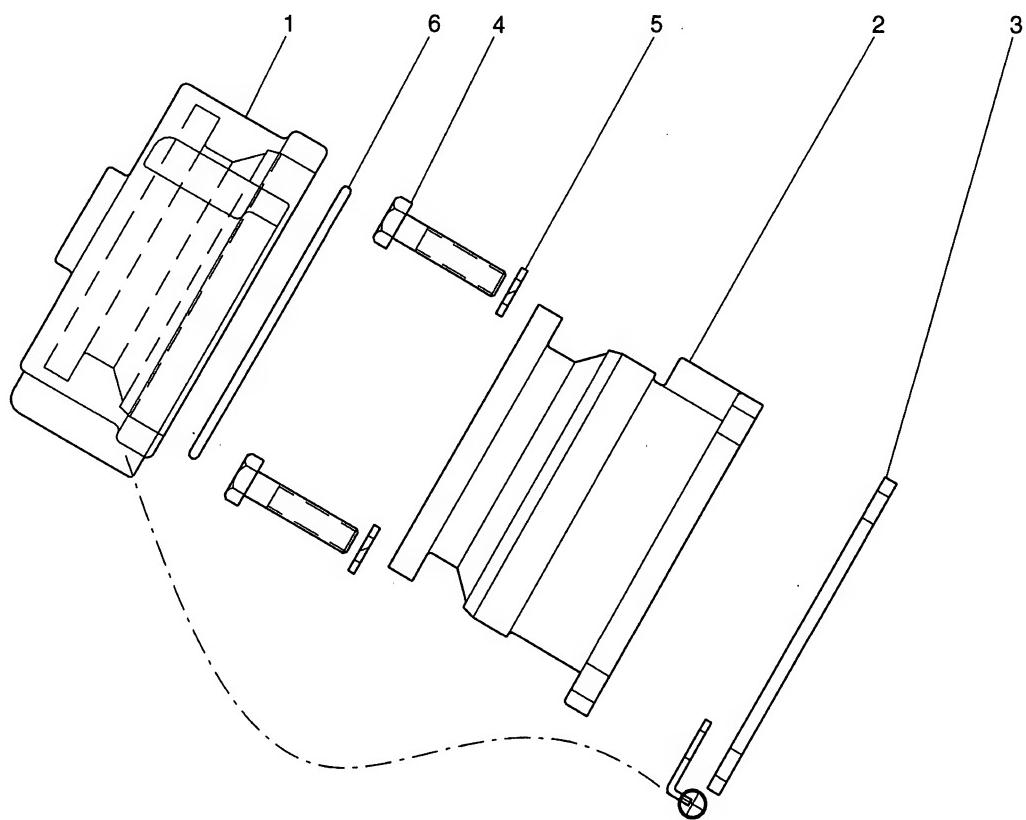


FUEL SYSTEM INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
31		4	BS-6300405	FITTING, STRAIGHT SWIVEL #10 X 7/8"-14
32		8	BS-4132200	SCREW, HX HD (1/2"-20 UNF X 2)
33		16	BS-4500124	WASHER, FLAT 1/2" (CDZN PL)
34		8	BS-4200608	NUT, STOVER (1/2" NF)
35		5	BS-6201112	CLAMP, TUBE 1-1/2"
36		10	BS-4121116	SCREW, 1/4"-20 x 1 (HX HD)
37		20	BS-4500120	WASHER, FLAT 1/4"
38		10	BS-4202304	NUT, NYLOCK (1/4"-20 NC)
39	AR		011234003	CLAMP, DOUBLE TUBE 3/4
40	AR		BS-5001207	SPIRAL, WRAP 1/2" ID X 5FT
41		2	010832051	COVER, BULKHEAD FUEL TANK
42		8	BS-4110505	SCREW, SELFTAP #10 X 1/2" PH PA
43		1	See page 9-9	CAP ASSEMBLY, FUEL TANK FILLER
44		1	A0832511AB	.O-RING
45		1	010832512	.ADAPTER ASSEMBLY, FUEL TANK
46		2	050832116	..GASKET, RUBBER
* 46A	+	4	BS-4129116	..SCREW, HX HD 1/4"-20 UNC X 1 BR
* 46B	+	4	BS-4521120	..WASHER, LOCK 1/4" SS
* 47		3	010832015	PLATE, HOSE BRACKET
* 48		3	BS-4500120	WASHER, FLAT 1/4"
* 49		3	BS-4202304	NUT, NYLOCK (1/4"-20 NC)
50		8	BS-4129116	SCREW,HX HD 1/4"-20 UNC X 1 BR
51		8	BS-4521120	WASHER, LOCK 1" SS
* 52		1	050832401	SPACER, 3" FUEL NECK EXTENSION
* 53		1	051028524	SWITCH ASSEMBLY, FUEL LEVEL CHECK

* Indicates item not shown on illustration

CAP ASSEMBLY, FUEL FILLER STANDARD



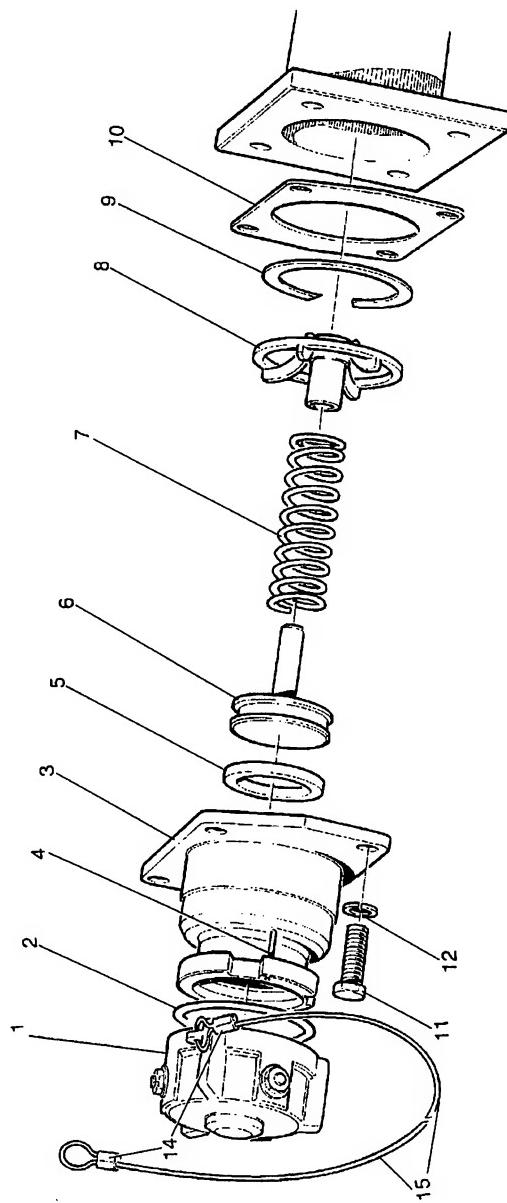
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CAP ASSEMBLY, FUEL FILLER STANDARD

REF	REV	QTY	PART NO	DESCRIPTION
				CAP ASSEMBLY, FUEL FILLER STANDARD
1		1	010832511	CAP ASSEMBLY, FUEL TANK FILLER
2		1	050832591	-ADAPTOR, FUEL FILL CAP (SNAP-ON SNAP-OFF)
3		1	050832116	GASKET, FUEL FILLER EXTENSION
4		4	BS-4129116	SCREW, HEX HEAD 1/4" NC X 1 BRASS
5		4	BS-4121120	WASHER, LOCK STAINLESS STEEL
6		1	A0832511AB	O-RING
*7		1	050832590	FUEL, KIT INCLUDES ITEMS 1,2,3

* Indicates item not shown on illustration

CAP, FILLER FUEL TANK



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CAP, FILLER FUEL TANK

REF	REV	QTY	PART NO	DESCRIPTION
				CAP, FILLER FUEL TANK
1		1	See page 9-9	CAP ASSEMBLY, FUEL TANK FILLER C/W O-RING
2		1	A0832511AB	O-RING
3		1	010832522	ADAPTER ASSEMBLY, FUEL TANK (USED W/POSI-LOCK 105)
4		1	A0832512AC	PIN, ROLL
5		1	A0832522AC	SEAL, PLUNGER
6		1	A0832522AB	VALVE, PLUNGER SPLASH
7		1	A0832522AD	SPRING, PLUNGER
8		1	A0832522AE	GUIDE, PLUNGER
9		1	A0832522AF	RING, RETAINING
10		1	050832116	GASKET, RUBBER FILLER EXTENSION
11		1	BS-4129116	SCREW, 1/4"-20 UNC X 1 HX HD
12		1	BS-4521120	LOCKWASHER 1/4 STAINLESS STEEL
* 13		1	020881401	CAP ASSEMBLY, FUEL TANK (INCLUDES ITEM 1, 2, 14 AND 15)
14		2	BS-5400204	FERRULE, NYLON COATED
15		1	BS-5400102	CABLE, 1/4" NYLON COATED
<i>* Indicates item not shown on illustration</i>				

MOUNTING, FUEL LINES

ILLUSTRATION NOT AVAILABLE

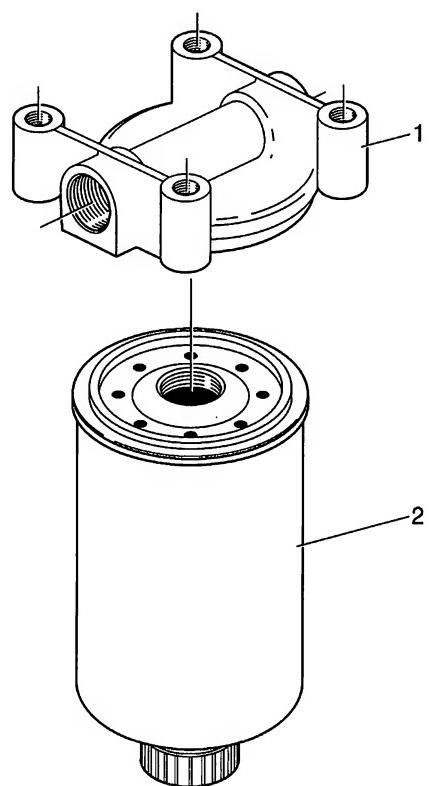
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03/01

MOUNTING, FUEL LINES

REF	REV	QTY	PART NO	DESCRIPTION
MOUNTING, FUEL LINES				
* 1		2	010833519	HOSE ASSEMBLY, #10FC-300 32'L
* 2		5	011234003	CLAMP, DOUBLE TUBE 3/4"
* 3		3	BS-4121136	HHCS 5/16" - 18NC X 1.0 ZN PLD
* 4		5	BS-4121142	HHCS 5/16" - 18 NC X 2.50 ZN PL
* 5		8	BS-4202305	NUT NYLOCK 5/16" - 18NC
* 6		16	BS-4500121	WASHER-5/16" FL CAD ZINC PLATTED
* 7		5	BS-5003108	LOOM-1.0 ID CORRUGATED
* 8		3	010832015	PLATE, HOSE BRACKET
* 9		1	BS-6300405	SWIVEL, STREET 7/8"- 14
* 10		1	BS-6300405	CLAMP, RUBBER LINED 7/8" ID
* 11		1	BS-4121116	SCREW, HX HD 1/4" - 20NCX1" ZP
* 12		1	BS-4202304	NUT, NYLOCK 1/4-20NC ZPL G

* Indicates item not shown on illustration

FILTER, FUEL



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FILTER, FUEL

REF	REV	QTY	PART NO	DESCRIPTION
				FILTER, FUEL
1		1	E0502583AE	HEAD, FUEL FILTER
2			E0502583AF	SEPERATOR, FUEL WATER

* Indicates item not shown on illustration

FUEL SYSTEM

10.

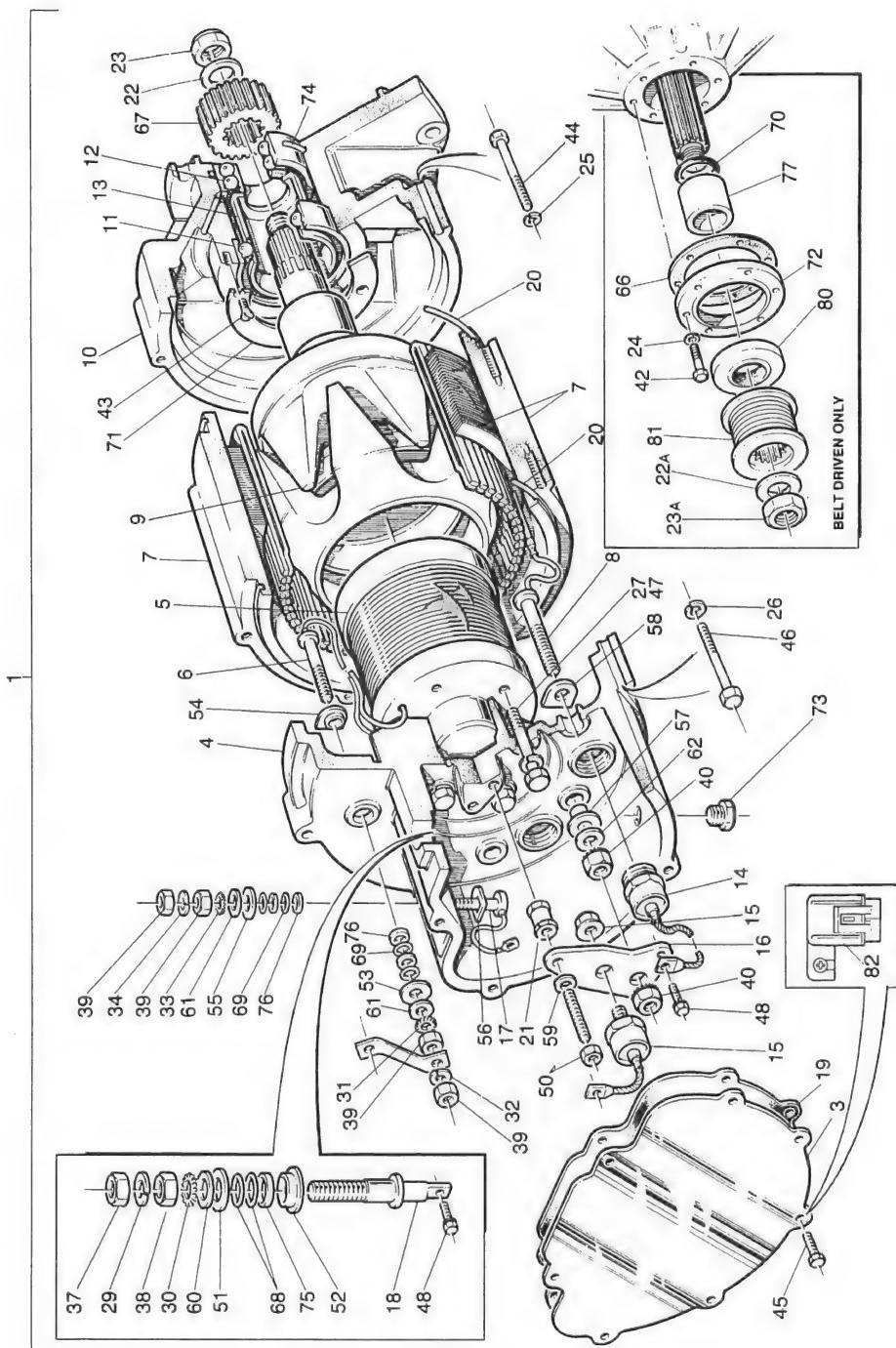
Electrical & Instruments

Orion Bus Industries



Section 10: *ELECTRICAL SYSTEM*

ALTERNATOR ASSEMBLY, DELCO MODEL 50DN 24V

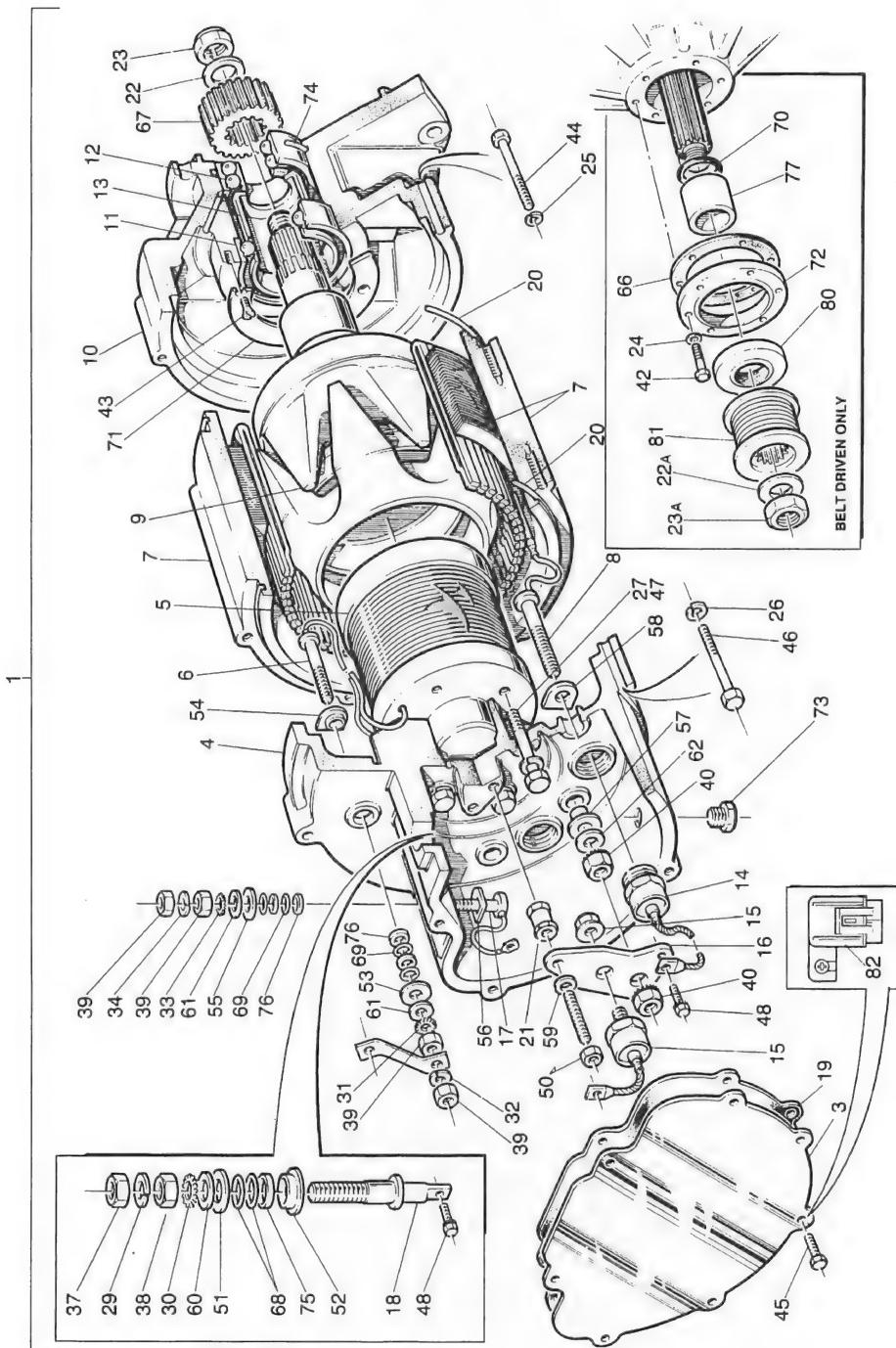


ALTERNATOR ASSEMBLY, DELCO MODEL 50DN 24V

REF	REV	QTY	PART NO	DESCRIPTION
				ALTERNATOR ASSEMBLY, DELCO MODEL 50DN 24V
1		1	011051517	ALTERNATOR ASSEMBLY, 24V 270A BELT DRIVEN
* 2				NOT APPLICABLE
3		1	A1051555AB	COVER, DIODE END CAST ALUMINIUM
4		1	A1051512AC	FRAME, DIODE END
5		1	A1051512BB	FIELD ASSEMBLY, 24V
6		2	A1051512BA	STUD, TERMINAL FIELD
7		1	A1051517BB	STATOR ASSEMBLY, 24V
8		3	A1051512CA	STUD, TERMINAL
9		1	A1051514DD	ROTOR ASSEMBLY, BELT DRIVEN
10		1	A1051516AB	FRAME, DRIVE END BELT DRIVEN
11		1	A1051512AE	BEARING, BALL INNER DRIVE END
12		1	A1051512AF	BEARING, ROLLER OUTER DRIVE END
13		1	A1051512AG	SPACER
14		3	A1051512AH	FRAME, DIODE
15		3	A1051512AH	BRACKET, DIODE
16		3	A1051512AJ	BRACKET, DIODE
17		1	A1051512AK	RELAY, TERMINAL STUD
18		1	A1051512AL	TERMINAL, STUD DC
19		1	A1051555AC	O-RING, DIODE END COVER
20		2	A1051512AN	O-RING
21		3	A1051512AP	SPACER, BRACKET
22				NOT APPLICABLE
22A		1	A1051516AC	WASHER, SHAFT BELT DRIVEN
23				NOT APPLICABLE
23A		1	A1051516AD	NUT, SHAFT BELT DRIVEN
24		6	A1051501GB	LOCKWASHER, BALL BRG RET OUTER
25		6	A1051501GB	LOCKWASHER, DRIVE END FR SCREW
26		6	A1051501GB	LOCKWASHER, DIODE END FR SCREW
27		4	A1051512AT	LOCKWASHER, FIELD SCREW 3/8"
* 28		3	A1051512AU	LOCKWASHER, DIODE SUPPORT BRKT NUT
29		1	A1051512AV	LOCKWASHER, TERM DC
30		1	A1051512AW	LOCKWASHER, TERM DC
31		1	A1051512AX	LOCKWASHER, TERM FIELD
32		1	A1051501GB	LOCKWASHER, FIELD
33		1	A1051512AX	LOCKWASHER, TERM STUD RELAY
34		1	A1051501GB	LOCKWASHER, TERM RELAY
* 35		1	A1051512AY	LOCKWASHER, UNDER FIELD TERM CONNECTOR
* 36		3	A1051512AZ	NUT, DIODE BRACKET ATTACH

* Indicates item not shown on illustration

ALTERNATOR ASSEMBLY, DELCO MODEL 50DN 24V



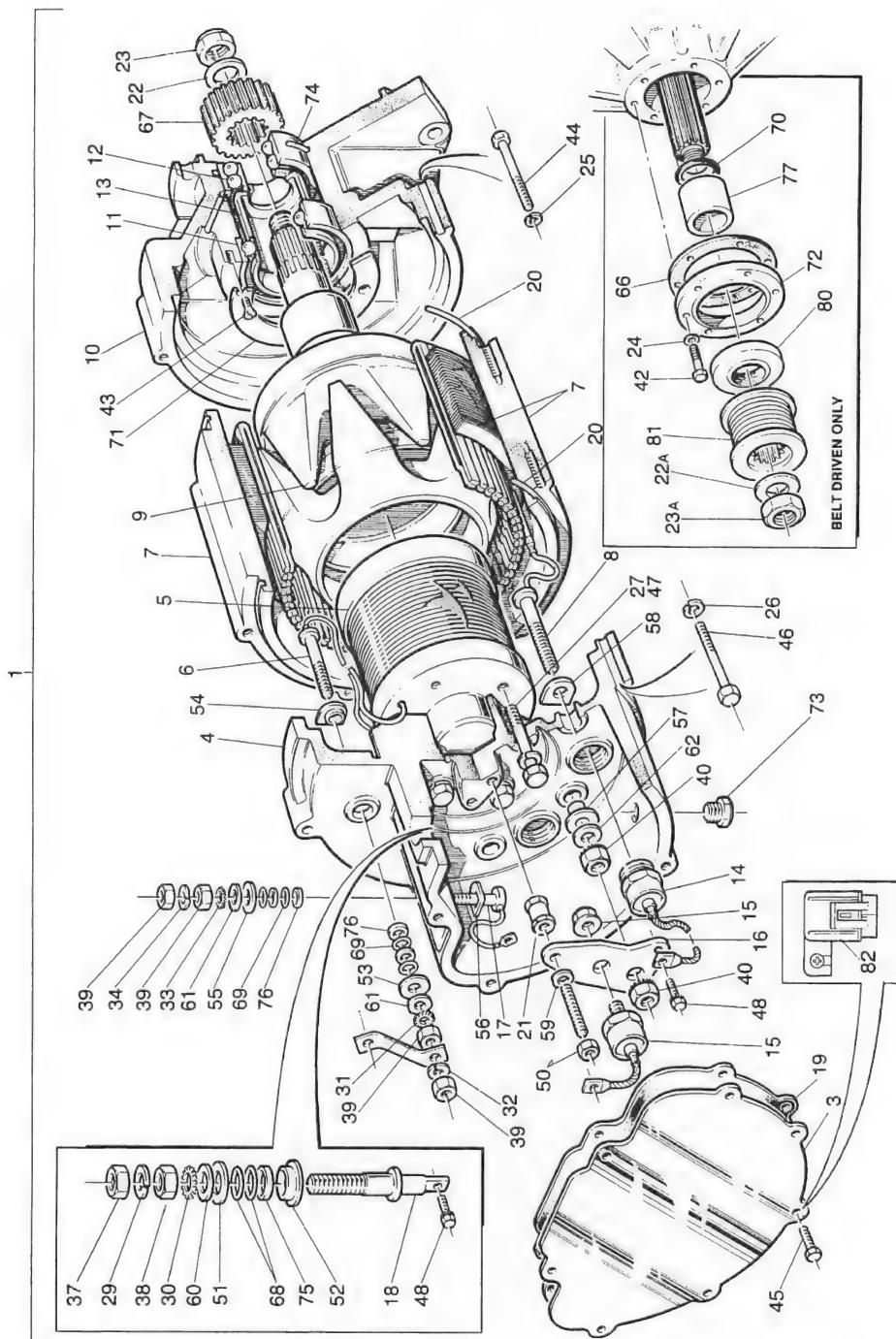
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ALTERNATOR ASSEMBLY, DELCO MODEL 50DN 24V

REF	REV	QTY	PART NO	DESCRIPTION
37		1	A1051512EA	NUT, TERM DC 7/16"
38		1	A1051512EB	NUT, TERM DC 5/16"
39		4	A1051512EC	NUT, TERM FIELD AND RELAY
40		6	A1051512ED	NUT, AND WASHER DIODE ATTACH STATOR
* 41		2	A1051512EF	NUT, AND WASHER DIODE ATTACH STATOR
42		1	A1051512EG	SCREW, BALL BRG RETAINER OUTER
43		6	A1051512EH	SCREW, PLATE BALL BRG RETAINER
44		6	A1051512EJ	SCREW, DRIVE END FRAME ATTACH
45		7	A1051555AD	SCREW, AND WASHER DIODE END COVER
46		6	A1051512EJ	SCREW, DIODE END FRAME ATTACH
47		4	A1051512EL	SCREW, FIELD ATTACH
48		4	A1051512EM	SCREW, AND WASHER DIODE LEAD
* 49		1	A1051512EN	SCREW, OIL LINE CLAMP
50		3	A1051512EP	STUD ASSEMBLY, DIODE SUPPORT BRACKET
51		1	A1051512ER	WASHER, INSUL DE TERM 1-3/16/16 OD
52		1	A1051512ES	WASHER, INSUL DE TERM BUSHING
53		1	A1051512ET	WASHER, FIELD TERM
54		1	A1051512EW	WASHER, FIELD TERM BUSHING
55		1	A1051512ET	WASHER, RELAY TERM
56		1	A1051512EU	WASHER, RELAY TERM BUSHING
57		3	A1051512EV	WASHER, STATOR TERM BUSHING
58		3	A1051512EW	WASHER, STATOR TERM
59		3	A1051512EX	WASHER, PLAIN DIODE SUPPORT BRKET
60		1	A1051512EY	WASHER, PLAIN DC TERM
61		2	A1051512EZ	WASHER PLAIN FIELD AND RELAY TERM
62		3	A1051512FA	WASHER PLAIN STATOR TERM
* 63		1	A1051512FB	CLAMP, OIL LINE
* 64		1	A1051512FC	CONNECTOR, NO 2 FIELD TERM TO SCREW
* 65		1	A1051512FD	ELBOW, OIL LINE DRIVE END
66		1	A1051516AF	GASKET, BALL BEARING RETAINER
67		1	A1051512FE	GEAR, ALTERNATOR DRIVE
68		2	A1051512FG	O-RING, DC TERM
69		4	A1051512FH	O-RING, FIELD AND RELAY TERM
70		1	A1051516AG	O-RING, BETWEEN BALL BRG AND HUB
71		1	A1051512FJ	PLATE, RETAINER BEARING INNER DE
72		1	A1051516AH	PLATE, RETAINER BRG OUTER DE
73		1	A1051512FK	PLUG, PIPE DIODE END FRAME
74		1	A1051512FB	CLAMP, BALL BEARING RUBBER OUTER

* Indicates item not shown on illustration

ALTERNATOR ASSEMBLY, DELCO MODEL 50DN 24V

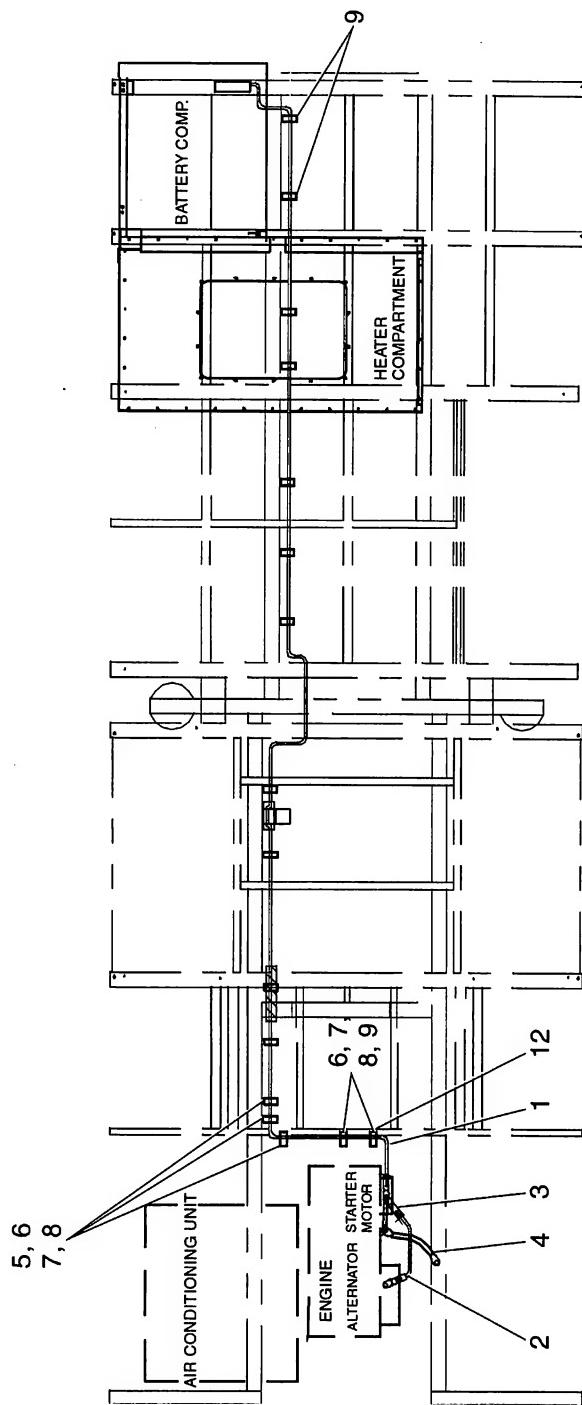


ALTERNATOR ASSEMBLY, DELCO MODEL 50DN 24V

REF	REV	QTY	PART NO	DESCRIPTION
75		2	A1051512FL	SLEEVE, INSULATED DC TERM
76		4	A1051512FM	SLEEVE INSULATED FIELD AND RELAY TERM
77		1	A1051516AJ	SPACER, HUB AND BALL BEARING
* 78		1	A1051512FN	TEE, OIL LINE RECTANGULAR END
* 79		1	A1051512FP	TUBE, OIL LINE
80		1	A1051516AL	SEAL, OUTER BEARING RETAINING PLATE
81		1	A0503953AB	PULLEY, ALTERNATOR DRIVE
82		1	021008100	FUSE, 10A ALTERNATOR AC WIRE
* 82A		1	011091008	CONNECTOR, FUSE BANK
* 82B		1	011091006	SHELL, FUSE BANK
* 82C		1	011091021	GASKET, OUTER
* 82D		1	011091020	GASKET, INNER
* 83		1	A1051555AE	DIODE, END COVER KIT (INCLUDES ITEMS 3, 19 AND 45)

* Indicates item not shown on illustration

STARTER POWER SYSTEM INSTALLATION



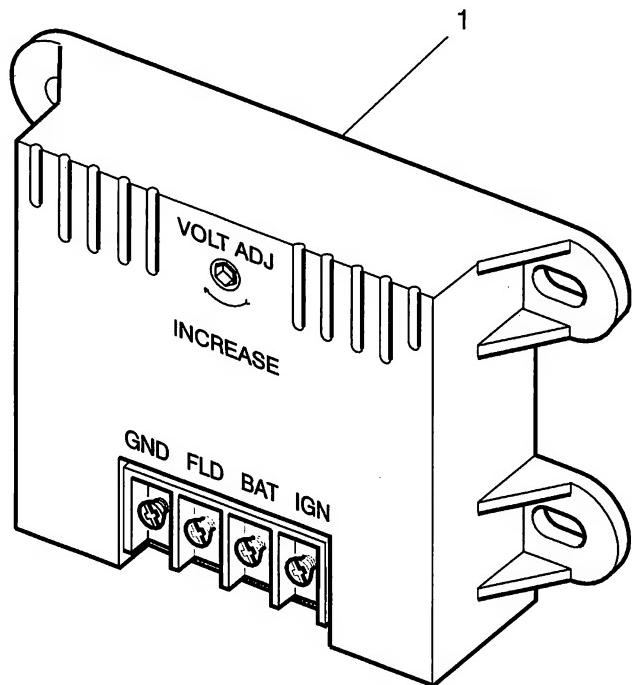
10-5069-1122.fm
05/00

STARTER POWER SYSTEM INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
STARTER POWER SYSTEM INSTALLATION				
1		1	051048532	CABLE, STARTER TO BATTERY
2		1	051048533	CABLE, ALTERNATOR TO STARTER
3		1	051048454	CABLE, STARTER TO GROUND
4		1	051048544	CABLE, ENGINE TO CHASSIS
5		3	BS-5202751	CLAMP, 1.13 DIA SS .03 THICK
6		18	BS-4121116	HX HD SCREW 1/4-20 NC X 1 GR 5 ZP
7		18	BS-4202304	NUT NYLOCK 1/4-20 NC ZP
8		18	BS-4500120	WASHER FLAT 1/4 ZP
9		2	BS-5202541	CLAMP, 1.75 DIA XX .03 THICK
* 10		1	051497004	HARNESS, ANGLE MOUNTING
* 11		2	BS-5202748	CLAMP .75" DIA SS .03 THICK
12		1	051497005	HARNESS, ANGLE MOUNTING
* 13		1	051098552	STRAP, GROUNDING ENGINE TO CHASSIS
* 14		1	052661506	CABLE, STARTER TO HEATER
* 15		1	BS-4520124	LOCK WASHER 1/2" ZN PL SS

* Indicates item not shown on illustration

REGULATOR, VOLTAGE 24V

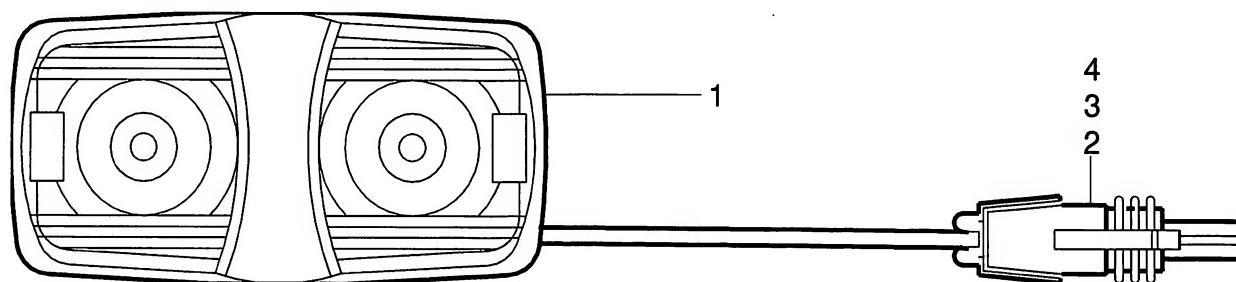


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05/00

REGULATOR, VOLTAGE 24V

REF	REV	QTY	PART NO	DESCRIPTION
			051051511	REGULATOR, VOLTAGE 24V
1		1	051051511	REGULATOR, VOLTAGE 24V (SEALED UNIT)
*2		1	052661501	HARNESS, REGULATOR TO ALTERNATOR
*3		1	BS-4127106	BOLT-HEX HD 1"X1/4"X20
*4		1	BS-4202304	NUT-NYLOCK 1/4-20NC
*5		2	BS-5202705	CLAMP, HI-TEMP 0.562 STAINLESS STEEL
*6		4	BS-4121116	SCREW-HXHD 1/4-20NCX1"
*7		4	BS-4500120	WASHER-FLAT 1/4" C/ZPL
*8		4	BS-4215711	WELL NUT-NEOPRENE 1/4-20
*9			051051510	JUMPER, VOLTAGE REGULATOR BATTERY TO IGNITION
<i>* Indicates item not shown on illustration</i>				

LIGHT, DOOR AUTHORIZATION AND COMPARTMENT



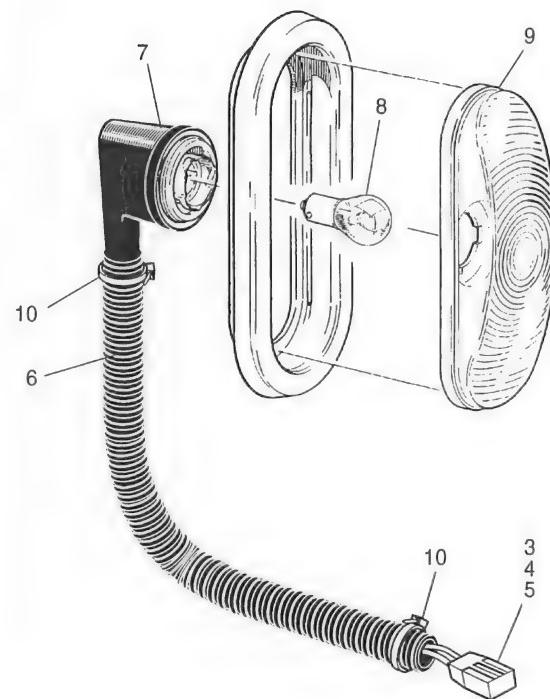
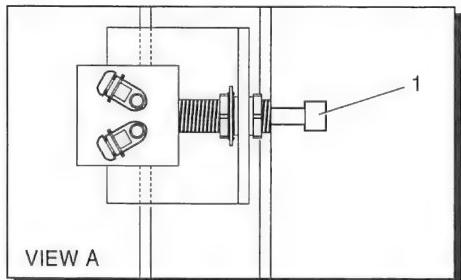
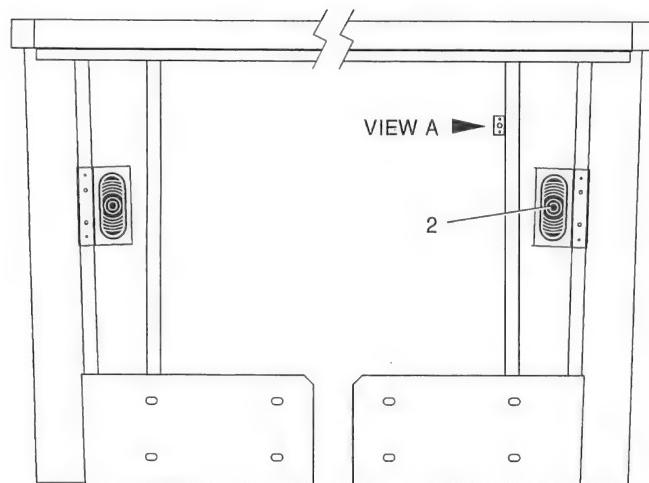
10-6009-1154A.fm
03/01

LIGHT, DOOR AUTHORIZATION AND COMPARTMENT

REF	REV	QTY	PART NO	DESCRIPTION
				LIGHT, DOOR AUTHORIZATION AND COMPARTMENT
1		3	051053582	LIGHT, GREEN AUTHORIZATION
* 1A		1	051053583	LIGHT ASSEMBLY, CLEAR LENS COMPARTMENT
2		1	011091031	CONNECTOR, 1 WAY W/P
3		1	011091014	TERMINAL PIN W/P
4		1	011091041	SEAL, GRAY, 16 AWG W/P
* 5		2	BS-5050139	BULB, #1820 28V 0.1A 1.6CP
* 6		1	051063520	HARNESS, HEATER COMPARTMENT LIGHT

* Indicates item not shown on illustration

LIGHT, HAZARD



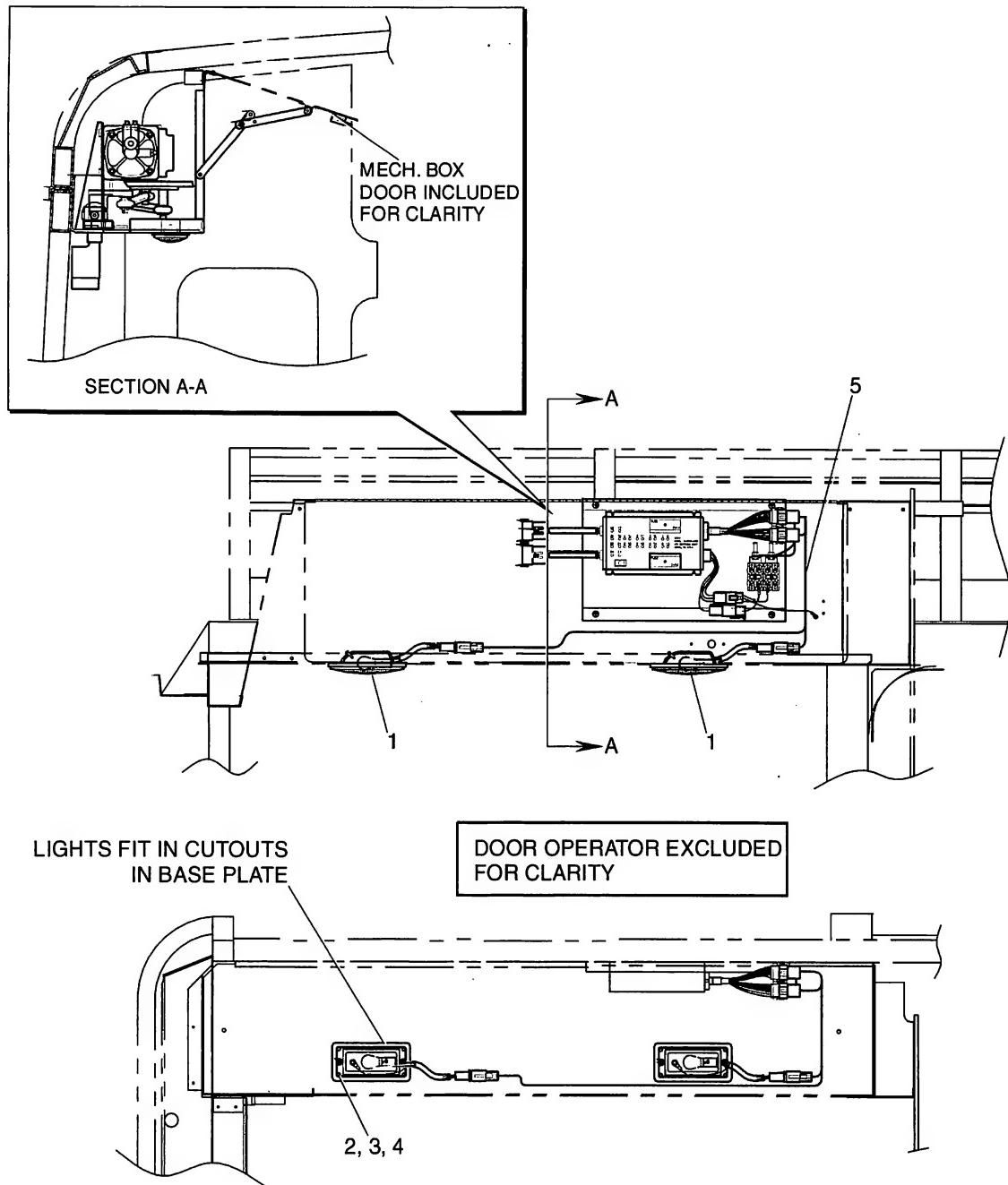
10-7003.fm
09/00

LIGHT, HAZARD

REF	REV	QTY	PART NO	DESCRIPTION
				LIGHT, HAZARD
1		1	051029560	SWITCH, TOGGLE SPST HAZARD LIGHTS
2		2	051052584	LAMP, HAZARD ENGINE DOOR RED
3		AR	011091002	.SEAL, GREEN SILICONE
4		2	011091014	.PIN, TERMINAL MALE WEATHER PACK
5		1	021074459	.CONNECTOR, 2 PIN MALE WEATHER PACK
6		AR	BS-5003301	.LOOM, 1/4" ID HI TEMP
7		1	051052002	.BOOT, RUBBER PIG TAIL ENGINE LAMP
8		1	BS-5050129	.BULB, 1157 12V
9		1	051052506	.LENS, REAR STOP OVAL 7" 12V
10		2	BS-5300202	.TIE PLASTIC 4"

* Indicates item not shown on illustration

LIGHT, FRONT DOOR OVERHEAD INSTALLATION



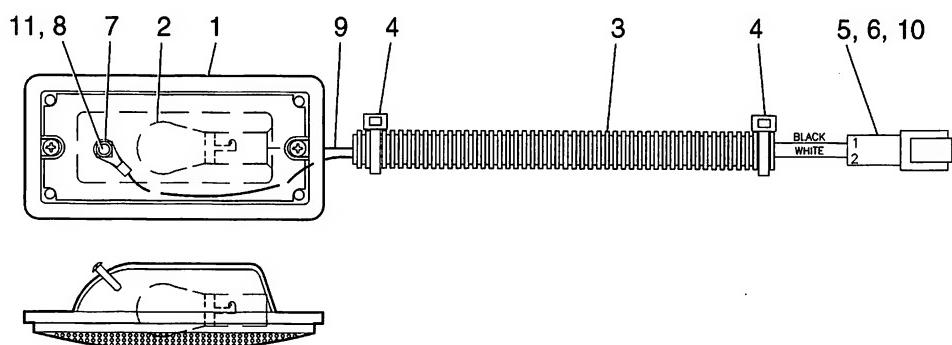
10-5083-1122.fm
05/00

LIGHT, FRONT DOOR OVERHEAD INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
	NR		SK2400-0031	LIGHT, FRONT DOOR OVERHEAD INSTALLATION
1		2	See page 10-19	LIGHT ASSEMBLY, 24V DRIVERS
2		8	BS-4102391	SCREW MACHINE #8-32 X .75 PH TR SS
3		8	BS-4202808	NUT NYLOCK #8-32
4		8	BS-4500103	WASHER FLAT #8
5		1	052607505	HARNESS, C1 MODULE

* Indicates item not shown on illustration

LIGHT ASSEMBLY, DRIVER



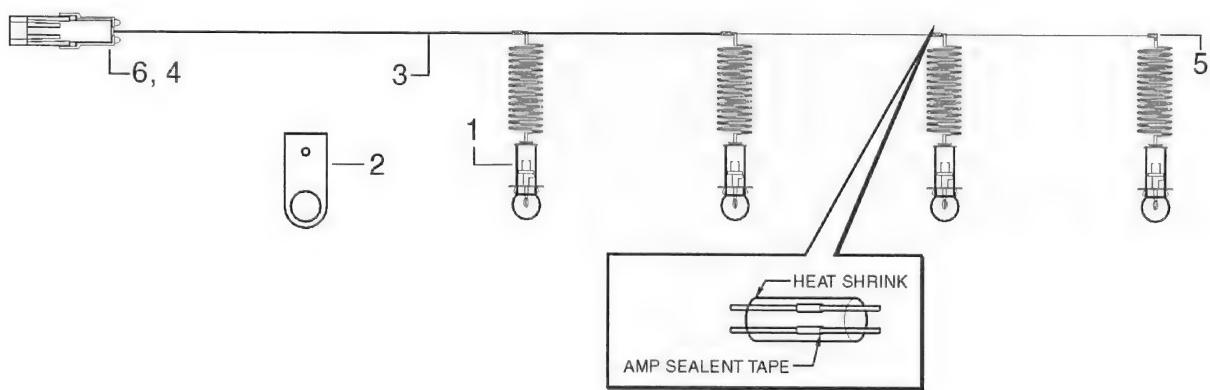
10-4409-1122.fm
05/00

LIGHT ASSEMBLY, DRIVER

REF	REV	QTY	PART NO	DESCRIPTION
LIGHT ASSEMBLY, DRIVER				
REF	E		051070542	LIGHT ASSEMBLY, DRIVER'S 24V
1		1	011070517	DOME, LAMP GROTE
2		1	BS-5050119	-BULB, #305 28V .51A 15CP
3		1	BS-5003101	LOOM, 1/4" X 6.00" LG CORRUGATED
4		2	BS-5300202	TIE, PLASTIC 4"
5		1	051071507	CONNECTOR, 2-WAY RECEPTACLE DEUTSCH
6		1	051071055	PIN, TERMINAL DEUTSCH
7		1	BS-5201211	TERMINAL, #10 BLUE
8		1	BS-4110506	SCREW, MACHINE - SELFTAP #10 X 5/8" PH PA BZP
9		1	BS-5000169	WIRE, 16 GA SXL WHITE
10		1	051071036	WEDGE, LOCK - DEUTSCH W2P
11		1	BS-4530107	WASHER, EXSTAR #10 FL BRT ZP

* Indicates item not shown on illustration

LIGHT ASSEMBLY, SIDE PANEL 12V



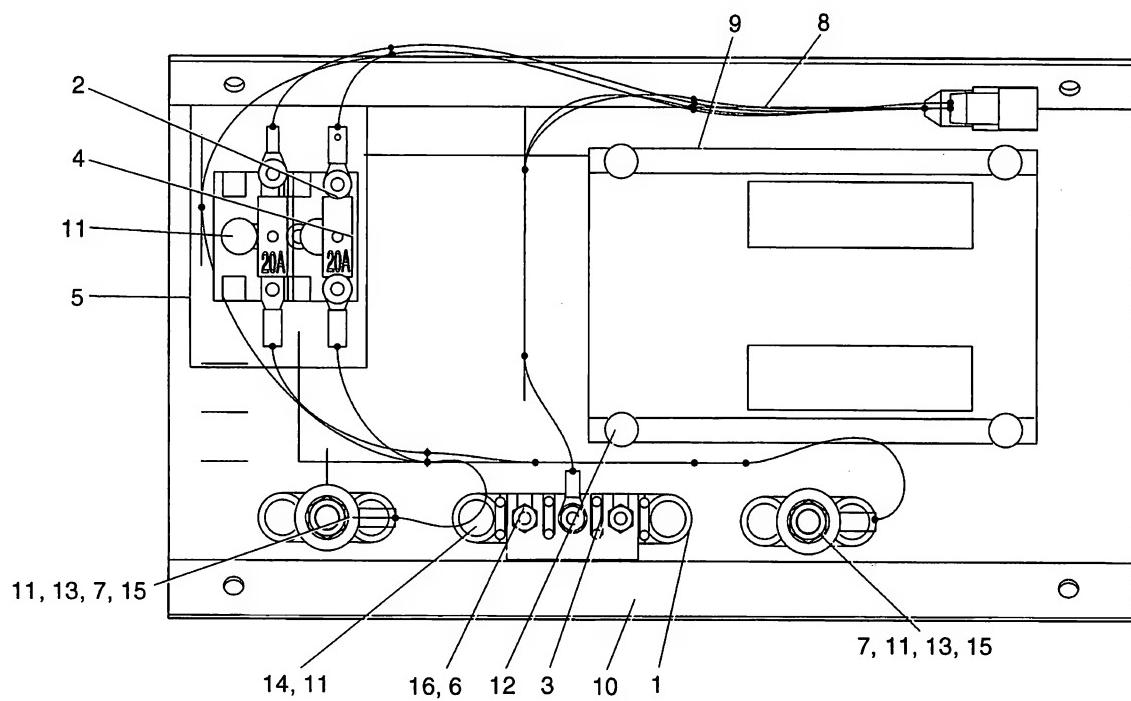
10-6099.fm
02/00

LIGHT ASSEMBLY, SIDE PANEL 12V

REF	REV	QTY	PART NO	DESCRIPTION
	NR		052608508	LIGHT ASSEMBLY, SIDE PANEL 12V
1		4	011001526	SOCKET, LIGHT AND PIG TAIL
2		4	011001075	BRACKET, LIGHT SOCKET
3		A/R	BS-5000187	WIRE, 18GA SXL BLUE
4		1	011091031	PIN, CONNECTOR, RECPT W/P
5		A/R	BS-2611404	ADHESIVE, HEATSHRINK 1/4" BLACK
6		1	060171003	PIN, TERMINAL, 16-18GA W/P

* Indicates item not shown on illustration

PANEL, ELECTRICAL ENTRANCE DOOR

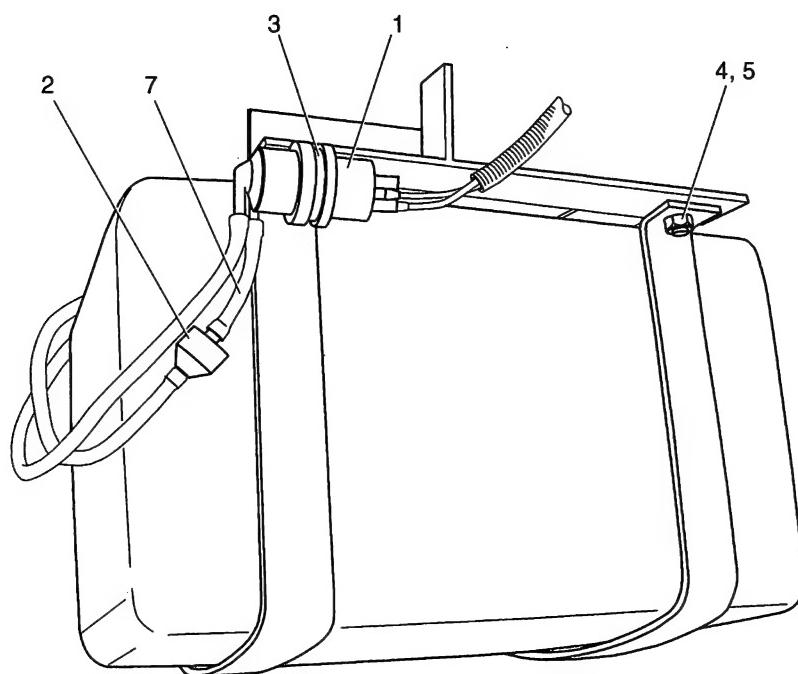


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05/00

PANEL, ELECTRICAL ENTRANCE DOOR

REF	REV	QTY	PART NO	DESCRIPTION
				PANEL, ELECTRICAL ENTRANCE DOOR
REF	NR		052607502	PANEL ASSEMBLY, FRONT ENTRANCE DOOR
1		1	052671002	BLOCK, JUNCTION 3 STUD
2		2	021008506	BASE, CIRCUIT BREAKER
3		1	052653013	BUSBAR, 3-STUD BLOCK
4		2	021008510	BREAKER, CIRCUIT 20A
5		1	052653010	INSULATOR, FIBREGLASS
6		3	BS-4204110	NUT, HEX - #10 UNC ZP
7		2	BS-4204406	NUT, HEX - 3/8" NF BZP G5
8		1	052607503	HARNESS, C1POWER WIRING
9		1	052679403	MODULE, ENTRANCE DOOR
10		1	052607001	PLATE, ENTRANCE DOOR PANEL
11		8	BS-4110506	SCREW, MACHINE - #10 X 5/8" - SELFTAP PA PH
12		4	BS-4110505	SCREW, MACHINE - #8 X 1/2" LG. SELFTAP PA PH
13		2	011001402	TERMINAL, BATTERY POST 3/8"
14		2	BS-4500104	WASHER, FLAT - #10 ZP
15		2	BS-4520122	WASHER, LOCK - 3/8" ZP
16		3	BS-4520104	WASHER, LOCK - #10 SPLIT
* 17		1	021008514	BREAKER, CIRCUIT 2 WAY
<i>* Indicates item not shown on illustration</i>				

PUMP, WINDSHIELD WASHER

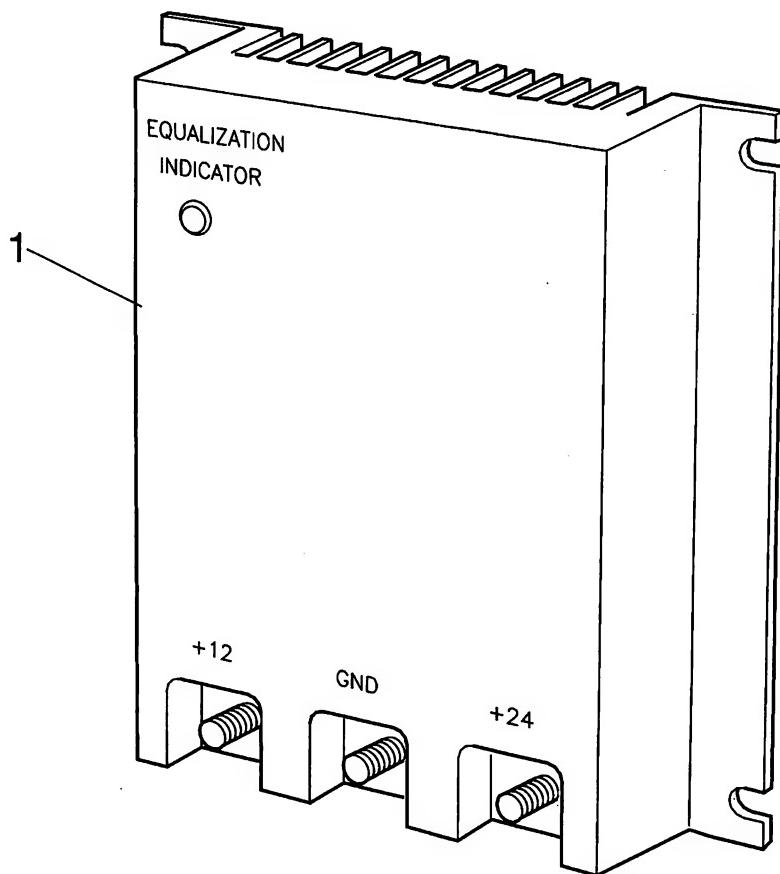


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05/00

PUMP, WINDSHIELD WASHER

REF	REV	QTY	PART NO	DESCRIPTION
PUMP, WINDSHIELD WASHER				
1		1	011009580	PUMP, WINDSHIELD WASHER (ENC012X)
2		1	020502042	VALVE, CHECK VACUUM
3		1	BS-5202304	CLAMP, RUBBER LINED 1-1/4"
4		2	BS-4500122	WASHER, FLAT - 3/8" CZP
5		1	BS-4202306	NUT, NYLOCK - 3/8" - 16 NC G5
* 6		23	BS-2611206	TUBING, 7/32" ID VAC HOSE
7		1	BS-6117202	TEE, BARB - 1/8" X 1/8" X 1/4" PLASTIC
* 8		16	BS-5300816	TIE, PLASTIC
* 9		1	BS-5202305	CLAMP, RUBBER LINED 1/2" ID
<i>* Indicates item not shown on illustration</i>				

EQUALIZER, BATTERY

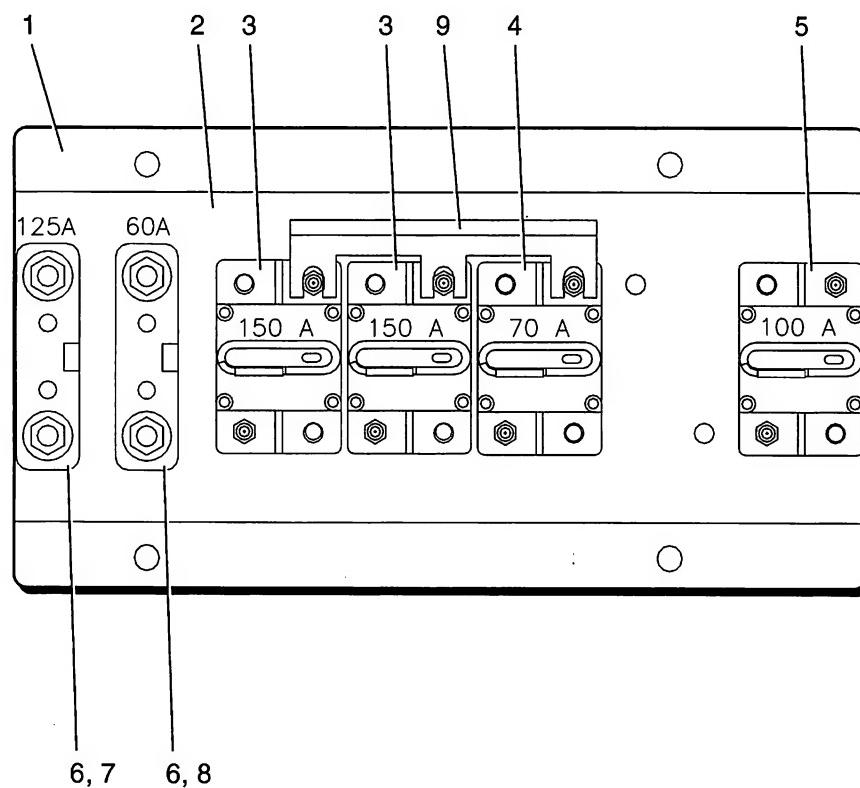


10-5034-1154A.fm
03/01

EQUALIZER, BATTERY

REF	REV	QTY	PART NO	DESCRIPTION
				EQUALIZER, BATTERY
1	A	1	051008186	EQUALIZER, BATTERY VOLTAGE - 80 AMPS
*2		4	BS-4128116	SCREW HEX HD 1/4" - 20
*3		4	BS-4215711	WELL NUT NEOPRENE 1/4" - 20
*4		4	BS-4501106	WASHER FLAT SS 1/4"
*5		1	051048582	CABLE SET, EQUALIZER - BATTERY
*6		1	See page 10-29	BREAKER, CIRCUIT POWER DISTRIBUTION AND FUSE
*7		1	052671009	STUD, 10 BLOCK
*8		1	052653011	BUSBAR, 8 STUD 8 BLOCK
*9		1	051532002	BRACKET, MOUNTING
<i>* Indicates item not shown on illustration</i>				

PLATE, POWER DISTRIBUTION



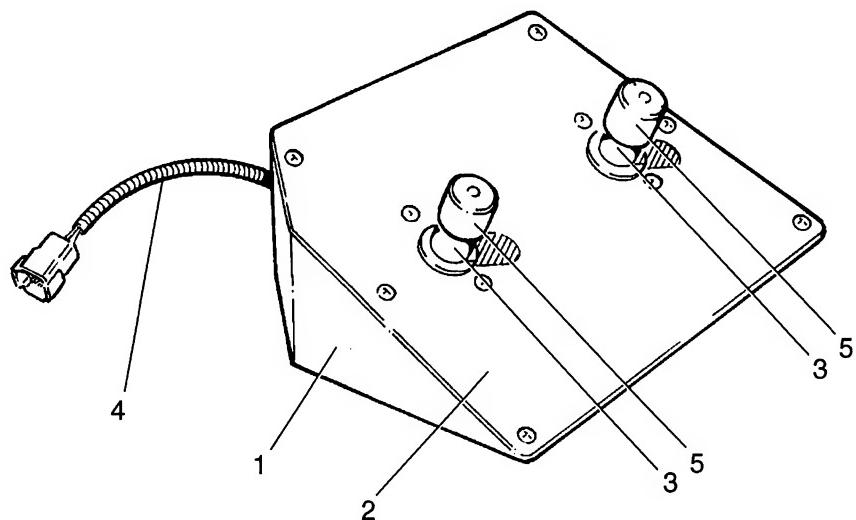
10-3607.fm
06/00

PLATE, POWER DISTRIBUTION

REF	REV	QTY	PART NO	DESCRIPTION
	C		051048572	PLATE, POWER DISTRIBUTION
1		1	051008093	PLATE, MOUNTING
2		1	051008094	INSULATOR
3		2	051033421	BREAKER, CIRCUIT 150A
4		1	051033412	BREAKER, CIRCUIT 70A
5		1	051033411	BREAKER, CIRCUIT 100A
6		2	061033500	HOLDER, FUSE
7		1	061033011	FUSE, 12V
8		1	061033010	FUSE, 24V
9		1	051008345	BUSBAR, 3 WAY
* 10		8	BS-4110509	SCREW SELF TAPPING # 10X1 PH PA
* 11		12	BS-4520104	LOCKWASHER # 10 ZN PL
* 12		8	BS-4501104	WASHER FLAT # 10 STAINLESS STEEL
* 13		4	BS-4500121	WASHER FLAT 5/16" ZN PLATTED
* 14		4	BS-4112509	SCREW 10X1 PH OVAL
* 15		2	BS-4121156	SCREW HX HD 3/8"-16NC
* 16		2	BS-4520122	WASHER LOCK 3/8" ZN PL
* 17		2	BS-4204306	NUT HEXAGONAL
* 18		1	051098431	CABLE, 12V FUSE TO CIRCUIT BREAKER
* 19		1	051098432	CABLE, 24V FUSE TO CIRCUIT BREAKER

* Indicates item not shown on illustration

BOX, FOOT SIGNAL



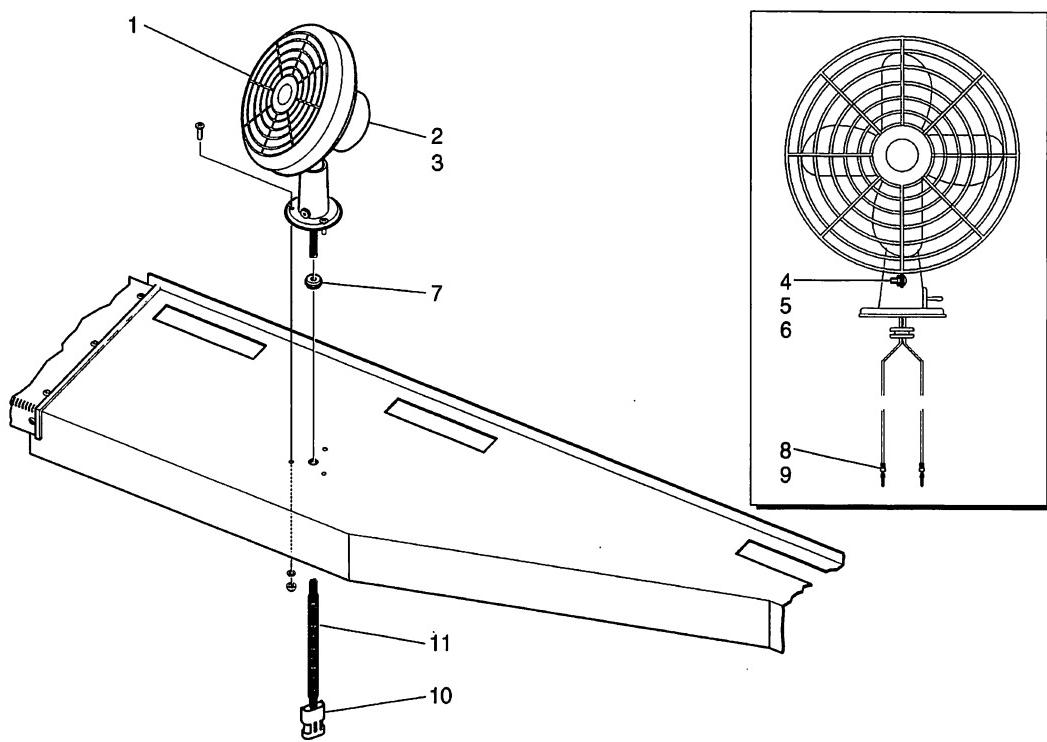
10-5172.fm
07/00

BOX, FOOT SIGNAL

REF	REV	QTY	PART NO	DESCRIPTION
				BOX, FOOT SIGNAL
1		1	051716010	BOX, FOOT CONTROL SWITCH
2		1	051716006	COVER, SIGNAL LIGHT BOX
3		2	011715402	SWITCH, FOOT CONTROL MOMENTARY
4		1	051023597	HARNESS, FOOT SIGNAL
5		2	011005102	CAP, RUBBER FOOT SWITCH (BLACK)

* Indicates item not shown on illustration

FAN, DRIVER DASH 24V



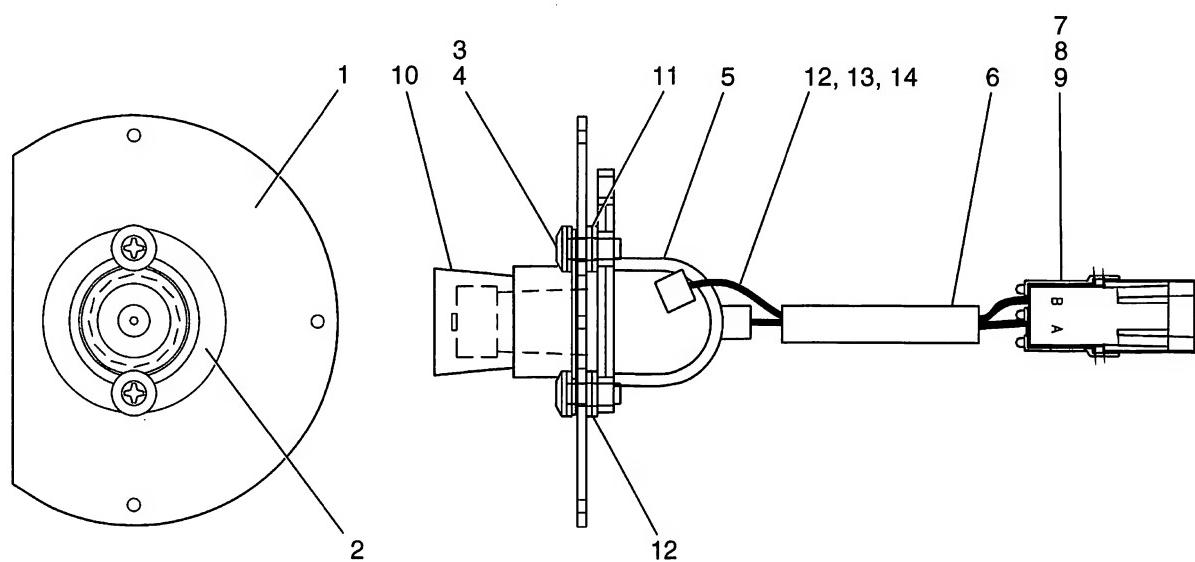
10-5152-1122.fm
05/00

FAN, DRIVER DASH 24V

REF	REV	QTY	PART NO	DESCRIPTION
				FAN, DRIVER DASH 24V
1			061037501	FAN ASSEMBLY, DASH 24V
2		1	011690503	FAN, DASH 24 VOLT
3		1	052123019	SHIELD, DRIVER'S FAN (TTC448)
4		1	BS-4119205	SCREW, MACHINE - THD CUT #6 X 1/2" TR HD PA
5		1	BS-4202106	NUT, NYLOCK # 6 - 32 NC ZP
6		1	BS-4530105	WASHER, EXT. STAR - #6 ZP
7		1	BS-2614012	GROMMET, RUBBER - 5/16" ID X 7/16" OD 1/16" GR. THK
8		2	011091014	TERMINAL, PIN, 14-16AWG, W/P
9		2	011091002	SEAL, GREEN, 18AWG, W/P
10		1	021074459	CONNECTOR, 2 PIN, RECEPTACLE, W/P
11		1	BS-5003301	LOOM, CORRUGATED - SPLIT, NYLON, BLACK

* Indicates item not shown on illustration

SWITCH ASSEMBLY, FOOT

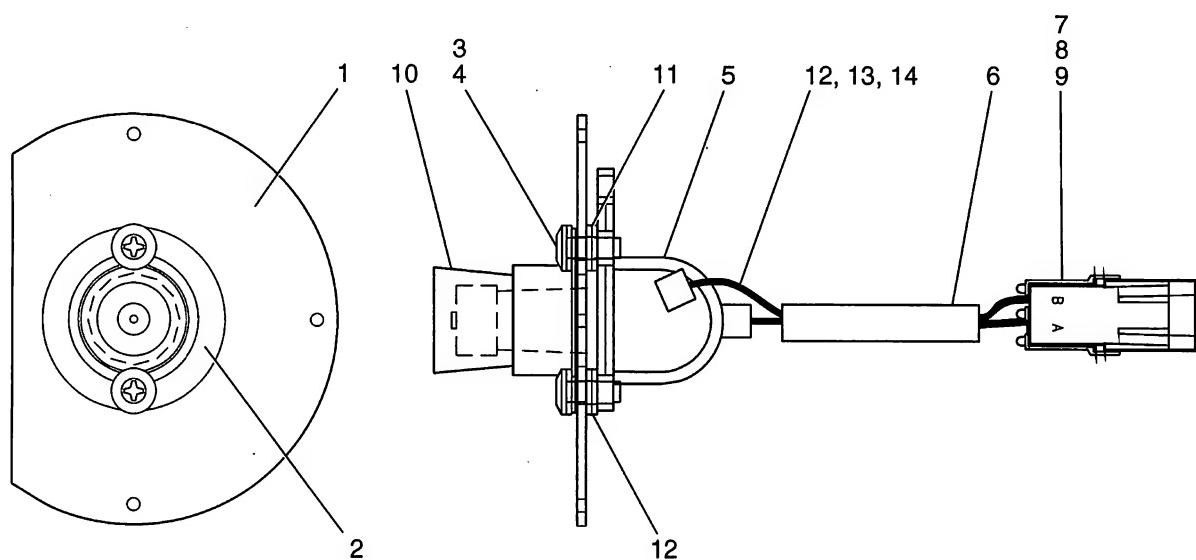


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09/00

SWITCH ASSEMBLY, FOOT

REF	REV	QTY	PART NO	DESCRIPTION
	C		051009547	SWITCH ASSEMBLY, FOOT
1		1	051017404	PLATE, FOOT SWITCH FLOOR MOUNTING
2		1	051716007	WASHER, FOOT SWITCH BOOT
3		2	BS-4102891	SCREW, 1/4-20 X 3/4 STAINLESS STEEL PH TR
4		2	BS-4521120	LOCKWASHER, 1/4" NOM. S.S.
5		1	051029040	SWITCH, SPDT ON-ON FLOOR COATED 7700
6		5	BS-5003103	LOOM, CORRUGATED SPLIT NYLON 1/4"
7		1	021074456	CONNECTOR, 3 PIN, RECEPTACLE, W/PIN
8		3	011091014	TERMINAL, PIN, 14-16AWG, W/PIN
9		3	011091041	SEAL, GREY 12-14 AWG W/PIN
10		1	011005102	CAP, RUBBER (ON FOOT SWS) BLACK
11		4	BS-4501106	WASHER, FLAT STAINLESS STEEL 1/4
12		5	BS-5000156	WIRE, 14GA SXL BLUE
13		5	BS-5000157	WIRE, 14GA SXL BROWN
14		5	BS-5000160	WIRE, 14GA SXL RED
<i>* Indicates item not shown on illustration</i>				

SWITCH ASSEMBLY, FOOT



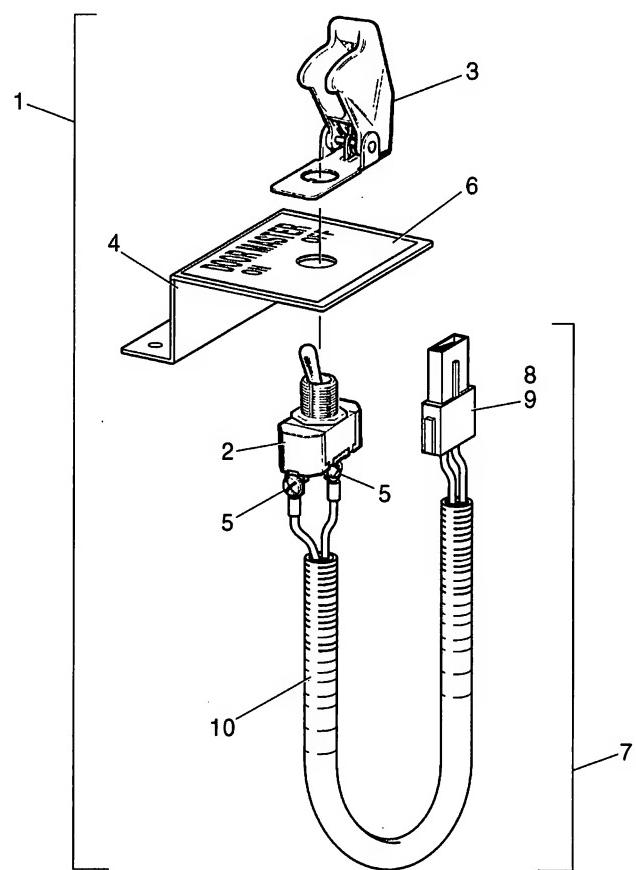
10-4131-1154A.fm
03/01

SWITCH ASSEMBLY, FOOT

REF	REV	QTY	PART NO	DESCRIPTION
	B		051009552	SWITCH ASSEMBLY, FOOT
1		1	051017401	PLATE, FOOT SWITCH FLOOR MOUNTING
2		1	051716007	WASHER, FOOT SWITCH BOOT
3		2	BS-4102891	SCREW, MACHINED 1/4-20 X 3/4 SS PH TR
4		2	BS-4521120	LOCKWASHER, 1/4" NOM. S.S.
5		1	051029040	SWITCH, SPDT ON-ON FLOOR COATED 7700
6		5	BS-5003103	LOOM, CORRUGATED SPLIT NYLON, .38
7		1	021074459	CONNECTOR, 3 PIN, RCPT, W/P
8		3	011091014	PIN, TERMINAL 14-16AWG, W/P
9		3	011091041	SEAL, BLUE 12-14 AWG W/P
10		1	011005102	CAP, RUBBER (ON FOOT SWS) BLACK
11		4	BS-4501106	WASHER, FLAT SS 1/4
12		5	BS-5000156	WIRE, 14GA SXL BLUE
13		5	BS-5000157	WIRE, 14GA SXL BROWN
14		5	BS-5000160	WIRE, 14GA SXL RED

* Indicates item not shown on illustration

SWITCH ASSEMBLY, MASTER FRONT DOOR



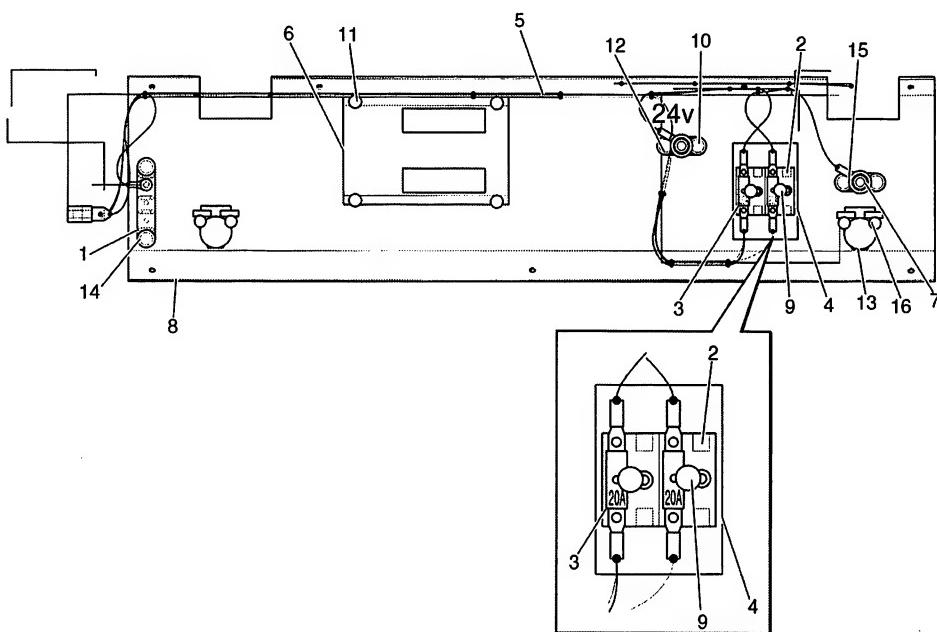
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05/01

SWITCH ASSEMBLY, MASTER FRONT DOOR

REF	REV	QTY	PART NO	DESCRIPTION
	NR		051034516	SWITCH ASSEMBLY, MASTER FRONT DOOR
1		1	051034515	.SWITCH ASSEMBLY, DOOR MASTER TG.SPST
2		1	011005402	..SWITCH, TOGGLE -.SPST ON-OFF
3		1	011004002	..GUARD, TOGGLE SWITCH
4		1	051034003	..DOOR MASTER SWITCH
5		9	BS-4108302	..SCREW, MACHINE # 6 32 X 5/16" PA HD ZP
6		1	BS-5501615	..DECAL, ON-OFF (TOGGLE SWITCH)
7		1	051096545	..JUMPER, HARNESS DOOR MASTER SWITCH
8		1	021074459	..CONNECTOR, 2 WAY RECEPTACLE W/PIN
9		2	061071003	..PIN, TERMINAL W/SEAL
10		AR	BS-5003301	..LOOM, 1/4" DIA

* Indicates item not shown on illustration

PANEL, ELECTRICAL EXIT DOOR

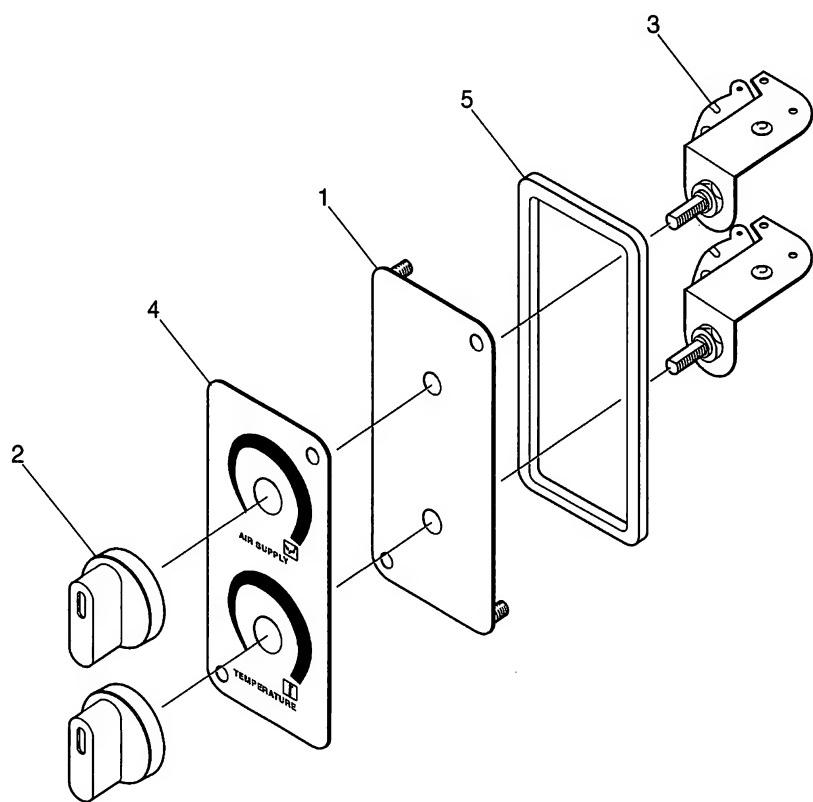


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PANEL, ELECTRICAL EXIT DOOR

REF	REV	QTY	PART NO	DESCRIPTION
	NR		052610506	PANEL, ELECTRICAL EXIT DOOR
1		1	052671002	BLOCK, JUNCTION - 3 STUD
2		2	021008506	BASE, CIRCUIT BREAKER
3		2	021008510	BREAKER, CIRCUIT 20A
4		1	052653010	INSULATOR, FIBERGLASS - CB
5		1	052610505	HARNESS, D1 POWER WIRING
6		1	052679404	MODULE, I/O CONTROLS HCNC
7		2	BS-4204306	NUT, HEX - 3/8" - 16 ZP
8		1	052610001	PLATE, EXIT DOOR
9		2	BS-4110507	SCREW, MACHINE - SELFTAP - #10 X 3/4" PH PA
10		4	BS-4110506	SCREW, MACHINE - SELFTAP - #10 X 5/8" PH PA
11		10	BS-4110405	SCREW, MACHINE - SELFTAP - #8 X 1/2" PA
12		2	011001402	STUD TERMINAL BLOCK 3/8" ZP
13		4	011007003	SWITCH, SENSITIVE EDGE ADJUST.
14		8	BS-4500104	WASHER FLAT - #10 ZP
15		2	BS-4500122	WASHER FLAT - 3/8" ZP
16		4	BS-4520103	WASHER LOCK - #8 SPLIT
<i>* Indicates item not shown on illustration</i>				

PANEL, DRIVER'S HEAT AND TEMPERATURE CONTROL



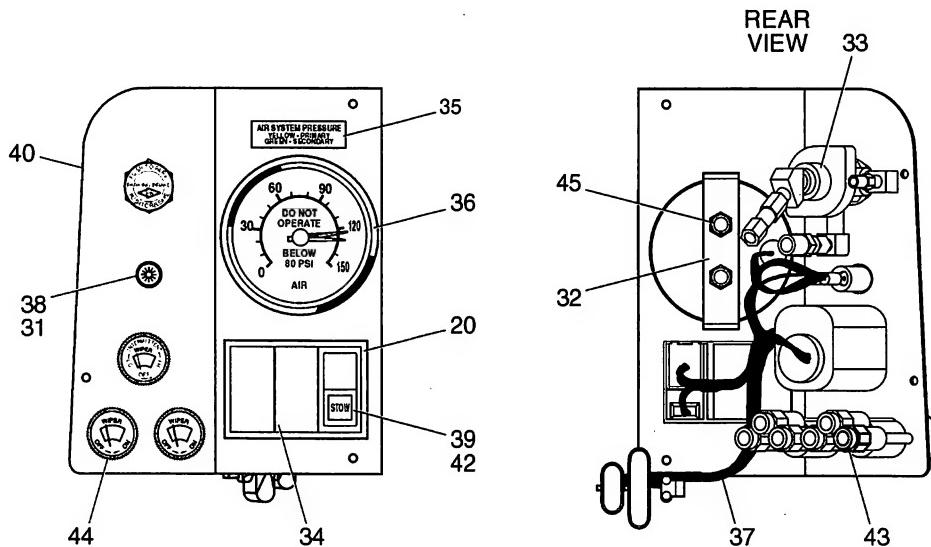
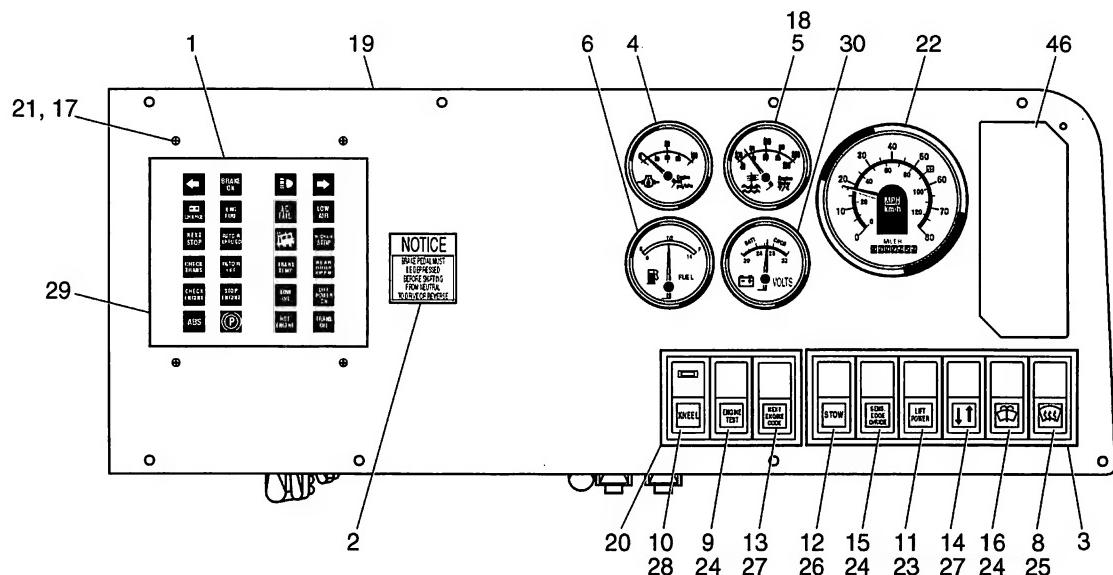
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03/01

PANEL, DRIVER'S HEAT AND TEMPERATURE CONTROL

REF	REV	QTY	PART NO	DESCRIPTION
			051310527	PANEL, DRIVER'S HEAT AND TEMPERATURE CONTROL
1	A	1	E1310519AB	PLATE, CONTROL
2		2	E1310517AK	KNOB
3		1	E1310517AD	CONTROL, ROTARY
4		1	E1310527AB	OVERLAY
5		1	E1310527AC	NEOPRENE

* Indicates item not shown on illustration

PANEL, FRONT DASH



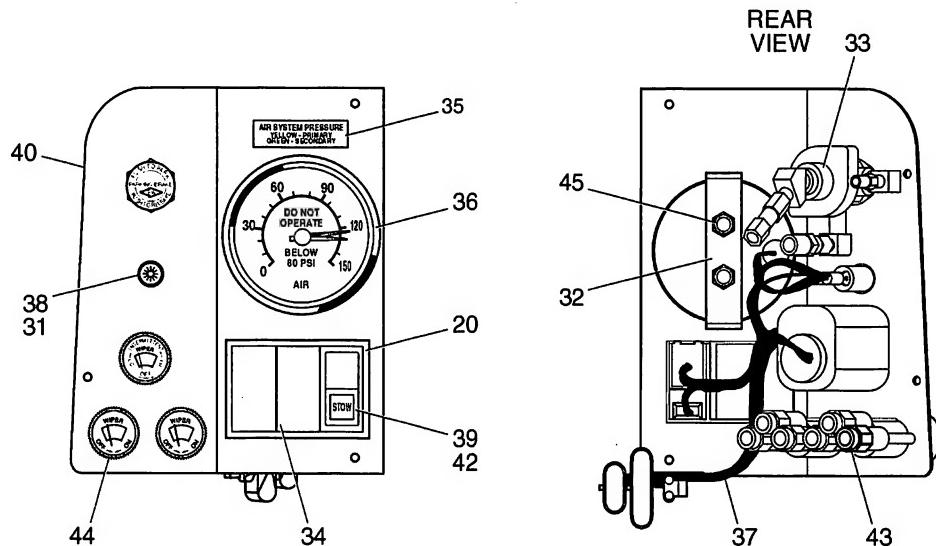
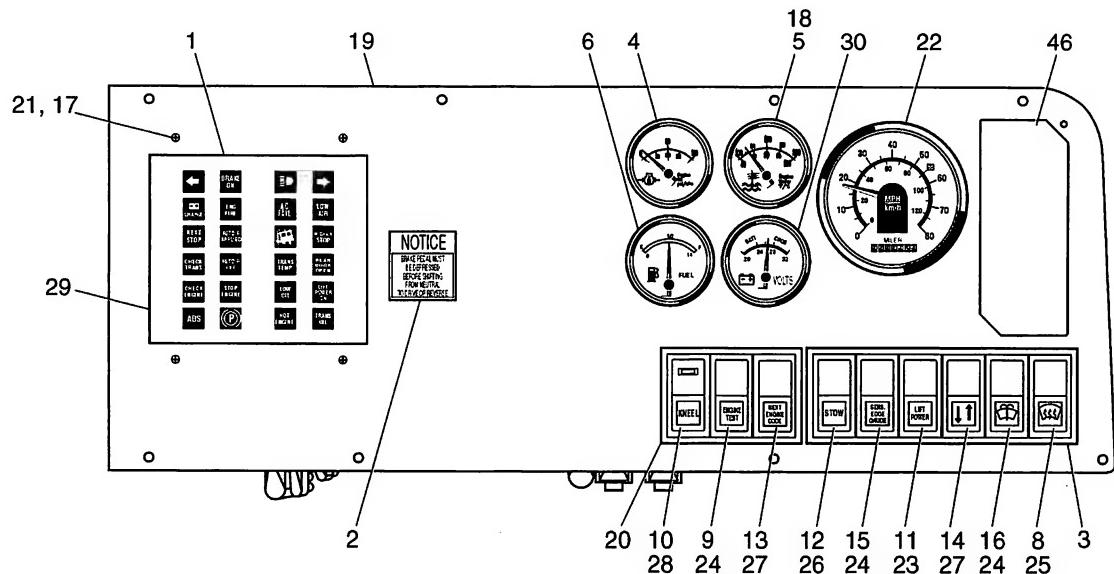
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05/01

PANEL, FRONT DASH

REF	REV	QTY	PART NO	DESCRIPTION
				PANEL, FRONT DASH
1		1	052605026	COVER, LEGEND 24 LED
2		1	BS-5501364	DECAL, SHIFT AUTHORISATION
3		1	051030015	FRAME, SWITCH MOUNT 6 POSITION
4		1	051031029	GAUGE, OIL PRESSURE 0-100 PSI
5		1	051031022	GAUGE, WATER TEMPERATURE
6		1	051031021	GAUGE, FUEL
*7		1	052605540	HARNESS, DASH PANEL RHND
8		1	051030019	LENS, SWITCH DEFROST
9		1	051030016	LENS, SWITCH ENGINE TEST
10		1	051030006	LENS, SWITCH KNEELING
11		1	051030020	LENS, SWITCH LIFT POWER
12		1	051030009	LENS, SWITCH LIFT STOW
13		1	051030088	LENS, SWITCH NEXT ENGINE CODE
14		1	051030066	LENS, SWITCH RAISE LOW
15		1	051030021	LENS, SWITCH SENSITIVE EDGE OVERRIDE
16		1	051030005	LENS, SWITCH WASHER
17		4	BS-4202106	INSERT, NYLON LOCKNUT
18		2	BS-6123122	PIPE, COUPLING 1/4" BRASS
19		1	052605025	PLATE, DASH PANEL RIGHT
20		2	051030014	HOUSING, FRAME 3 ROCKER SWITCH
21		4	BS-4108303	SCREW, # 6 32X1/2" PH PA BLACK
22		1	011003595	SPEEDOMETER 12V ATEC MPH
23		1	051030426	SWITCH, SWF 12V OFF-ON
24		3	051030408	SWITCH, SWF 12V OFF-ON
25		1	051030405	SWITCH, SWF 12V ON-ON-ON
26		1	051030425	SWITCH, SWF 12V ON-ON
27		2	051030423	SWITCH, SWF 12V ON-OFF-ON
28		1	051030422	SWITCH, SWF LOCK 12V ON-ON
29		1	052679407	MODULE, T-DIODE 24 LED
30		1	051031020	VOLTMETER, 24V
31		1	051070026	BULB, 14.4V
32		2	BS-6121803	CONNECTOR
33		1	051230512	VALVE, CONTROL 40PSI
34		2	051030003	COVER, BLANK FOR ROCKER SWITCH
35		1	BS-5501522	DECAL, AIR PRESSURE SYSTEM
36		1	051031523	GAUGE, DUAL AIR PRESSURE 0-150 PSI 3-3/8"
37		1	052605548	HARNESS, LEFT DASH PANEL
38		1	051003504	SOCKET, LAMP WITH SHIELD

* Indicates item not shown on illustration

PANEL, FRONT DASH



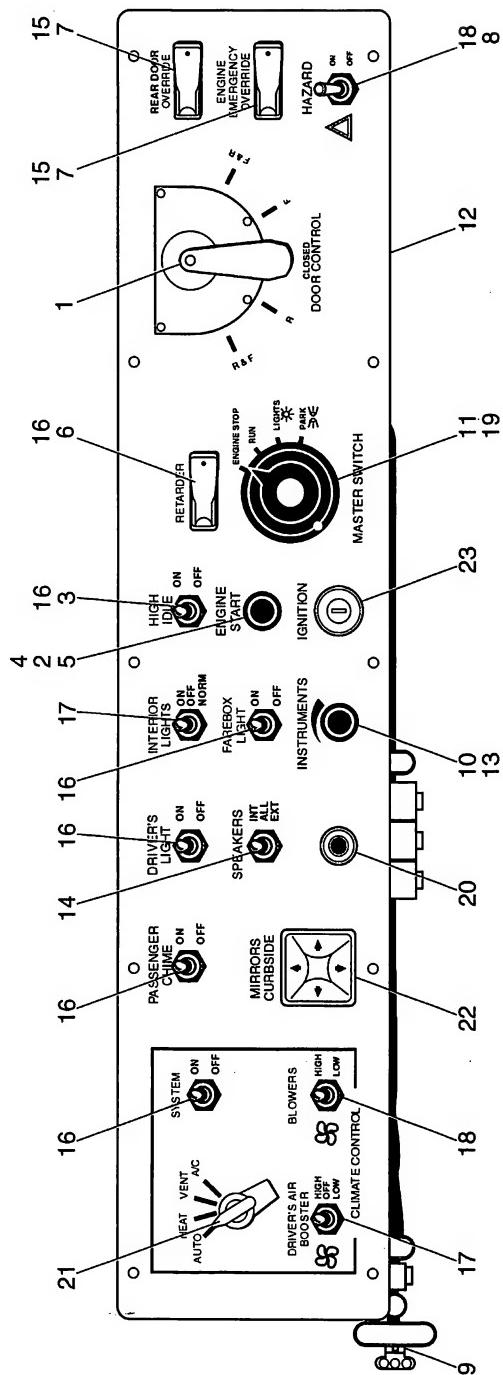
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05/01

PANEL, FRONT DASH

REF	REV	QTY	PART NO	DESCRIPTION
39		1	051030009	LENS, SWITCH LIFT STOW
40		1	052605031	PLATE, LEFT DASH PANEL
41		1	051030014	HOUSING, 3 SW FRAME ROCKER
42		1	051030425	SWITCH, 12V ON-ON
43		6	BS-6121603	FITTING, TUBE TO MALE 1/4" OD
44		2	051232407	VALVE, WIPER CONTROL
45		1	051031016	BRACKET, AIR GAUGE RETAINER
46		1	See page 10-43	CONTROL, DRIVER'S HEAT AND TEMPERATURE

* Indicates item not shown on illustration

PANEL, SIDE CONTROL

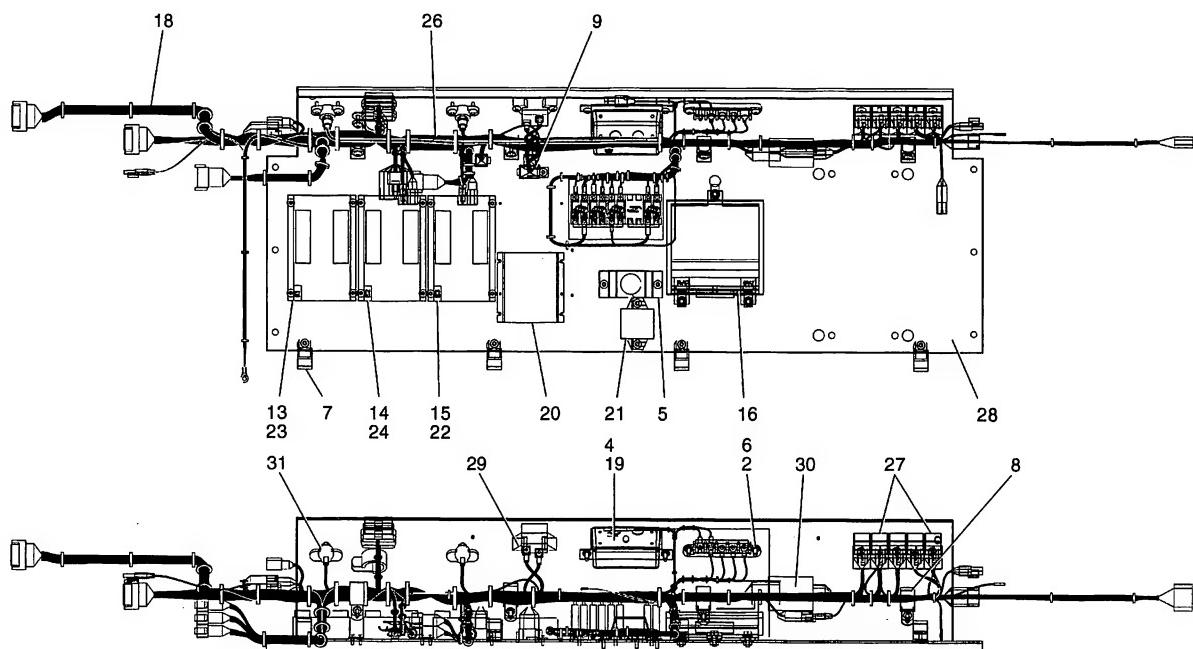
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05/01

PANEL, SIDE CONTROL

REF	REV	QTY	PART NO	DESCRIPTION
	B		052608545	PANEL, SIDE CONTROL
1		1	See page 18-27	VALVE, DOOR CONTROL
2		1	011005078	SWITCH, BEZZEL FRONT START
3		13	011001014	BOOT, TOGGLE SWITCH
4		1	011005076	BUTTON, RED PUSH ON SWITCH
5		1	011004406	SWITCH, ENGINE START
6		1	011004002	GUARD, TOGGLE SWITCH
7		2	051029419	GUARD, TOGGLE SWITCH
8		1	011004431	HANDLE, EXTENSION TOGGLE SWITCH
9		1	052608546	HARNESS, SIDE CONTROL PANEL
10		1	051032014	KNOB, POTENTIOMETER 10 K OHM
11		1	051004003	KNOB, MASTER SWITCH
12		1	052608029	PLATE, SIDE CONTROL PANEL
13		1	051032013	RESISTENCE, 10K POTENTIOMETER
14		1	011040902	SWITCH, TOGGLE 12 TERM 4PDT ON-ON-ON
15		2	011004408	SWITCH, TOGGLE 2 TERM 4PDT OFF-ON
16		6	011005402	SWITCH, TOGGLE 2 TERM OFF-ON
17		2	011005401	SWITCH, TOGGLE 3 TERM ON-OFF-ON
18		2	011004403	SWITCH, TOGGLE 4 TERM DPDT ON-OFF
19		1	011004405	SWITCH, MASTER ROTARY
20		1	051029022	SWITCH, PUSH ON 4 TERMINAL ON-OFF
21		1	051029516	SWITCH, ROTARY SPST
22		1	051029509	SWITCH, MIRROR CONTROL 12V
23		1	011004456	SWITCH, IGNITION

* Indicates item not shown on illustration

PANEL, REAR MULTIPLEX

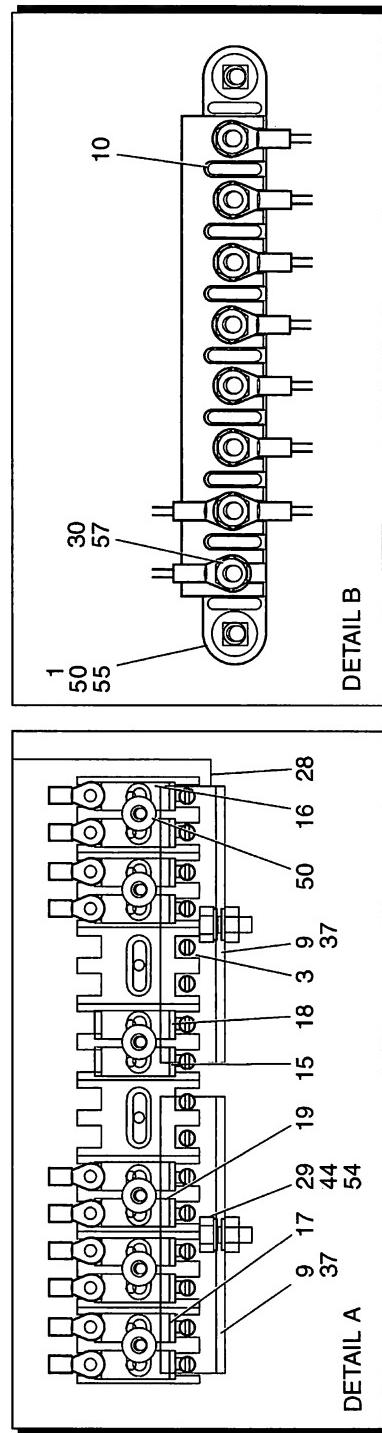
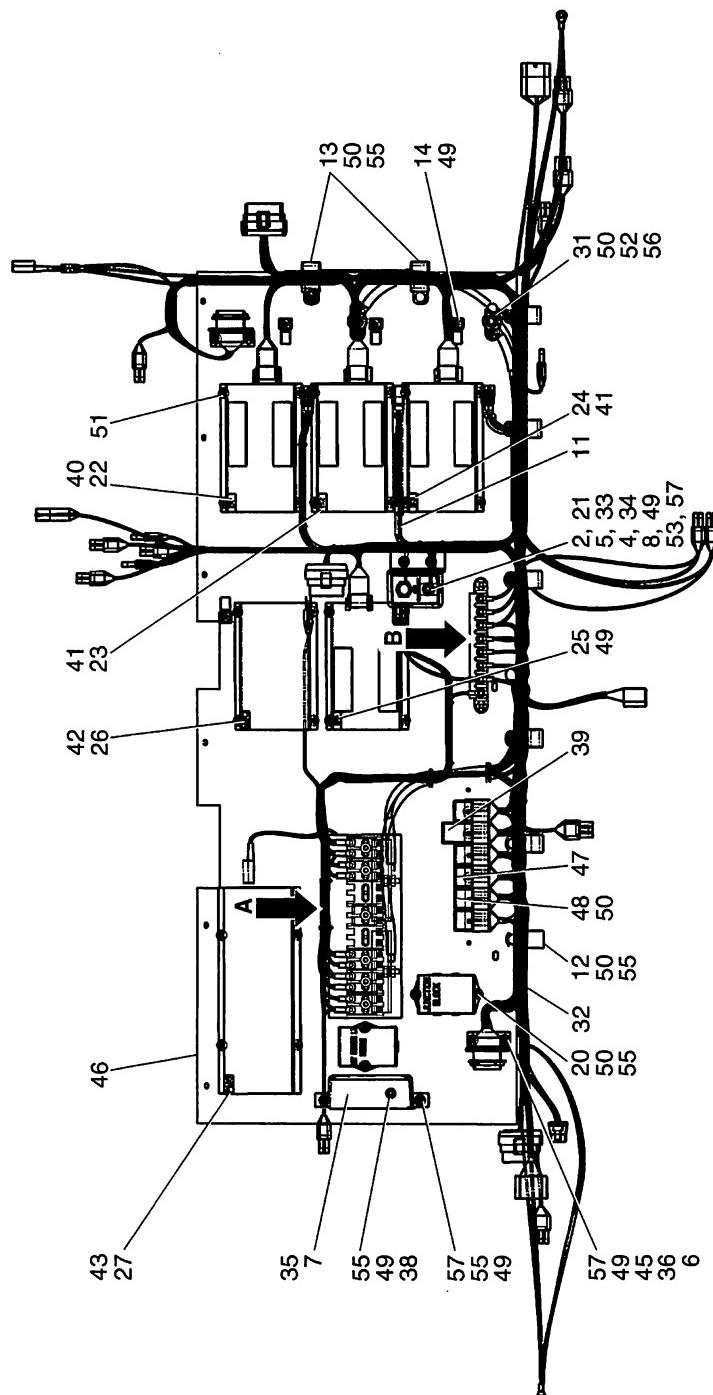


PANEL, REAR MULTIPLEX

REF	REV	QTY	PART NO	DESCRIPTION
	A		052611512	PANEL, REAR MULTIPLEX
* 1		1	021008513	BUSBAR, 4 WAY BREAKER CIRCUIT
2		1	052671004	BLOCK, 5 STUD JUNCTION
* 3		4	021008506	BASE, CIRCUIT BREAKER ETA
4		1	052601002	BRACKET, MAIN PANEL LIGHT
5			051034510	BRACKE, GENERAL PURPOSE
6		1	052653012	BUSBAR, 5 STUD BLOCK
7		5	BS-5202303	CLAMP, RUBBER LINED 1" DIA
8		3	BS-5202304	CLAMP, RUBBER LINED 1-1/4" DIA
9		1	061063036	CLIP, FOR DT 8WAY RECP
* 10		1	021008504	BREAKER, CIRCUIT 10 AMP
* 11				NOT APPLICABLE
* 12		6	021008510	BREAKER, CIRCUIT 20 AMP
13		1	BS-5501628	DECAL, E1
14		1	BS-5501629	DECAL, E2
15		1	BS-5501630	DECAL, E3
16		1		UNIT, ELECTRONIC CONTROL TRANSMISION
* 17		1	052653007	FIBREGLASS, FOR 4 BREAKER, CIRCUIT
18		1	052611510	HARNESS E ZONE
19		1	051070044	LIGHT, MAIN PANEL 24V WITH ON/OFF SW
20				NOT APPLICABLE
21		1	051018586	MODULE, RESISTANCE FOR A/C UNIT
22		3	052679403	MODULE, I/O CONTROLS D10
23		1	052679415	MODULE, I/O CONTROLS HCNC
24		1	052679404	MODULE, I/O CONTROL HCNC
* 25		1	052611005	PLATE, E ZONE PANEL
26		1	052611509	POWER, DISTRIBUTION E ZONE WIRING
27		1	011021247	RELAY, 12V 20/30A DIODE
28		1	011021249	RELAY, 24 V 10/20 A DIODE
29		1	051030916	RELAY, 24V 50 AMPS WITH DIODE
30		1	051018586	RESISTOR, MODULE FOR A/C
31		2	011001402	STUD, TERMINAL BLOCK 3/8
* 32		1	011001014	BOOT, TOGGLE SWITCH
* 33		1	BS-5502176	DECAL, POWER TRANSMISSION

* Indicates item not shown on illustration

PANEL, MAIN ELECTRICAL SYSTEM



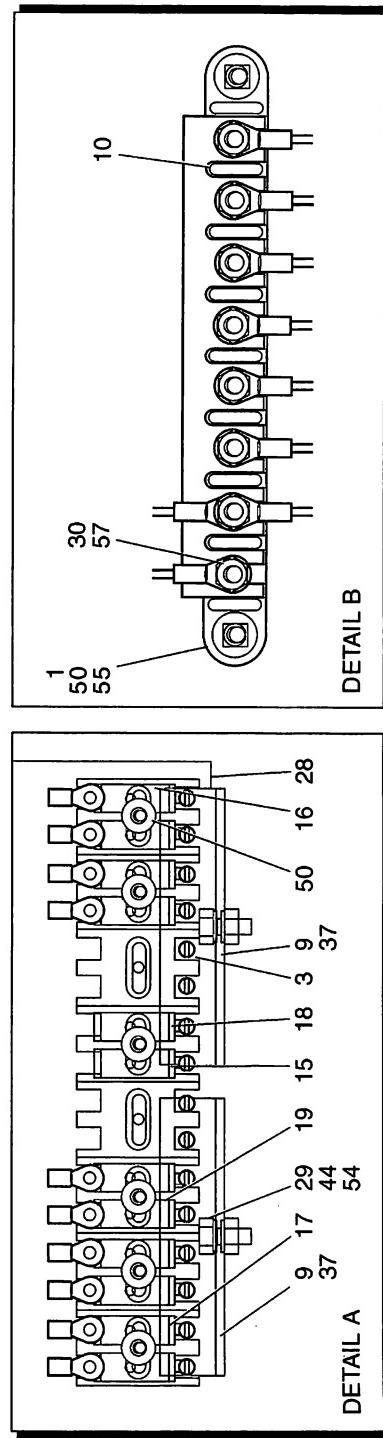
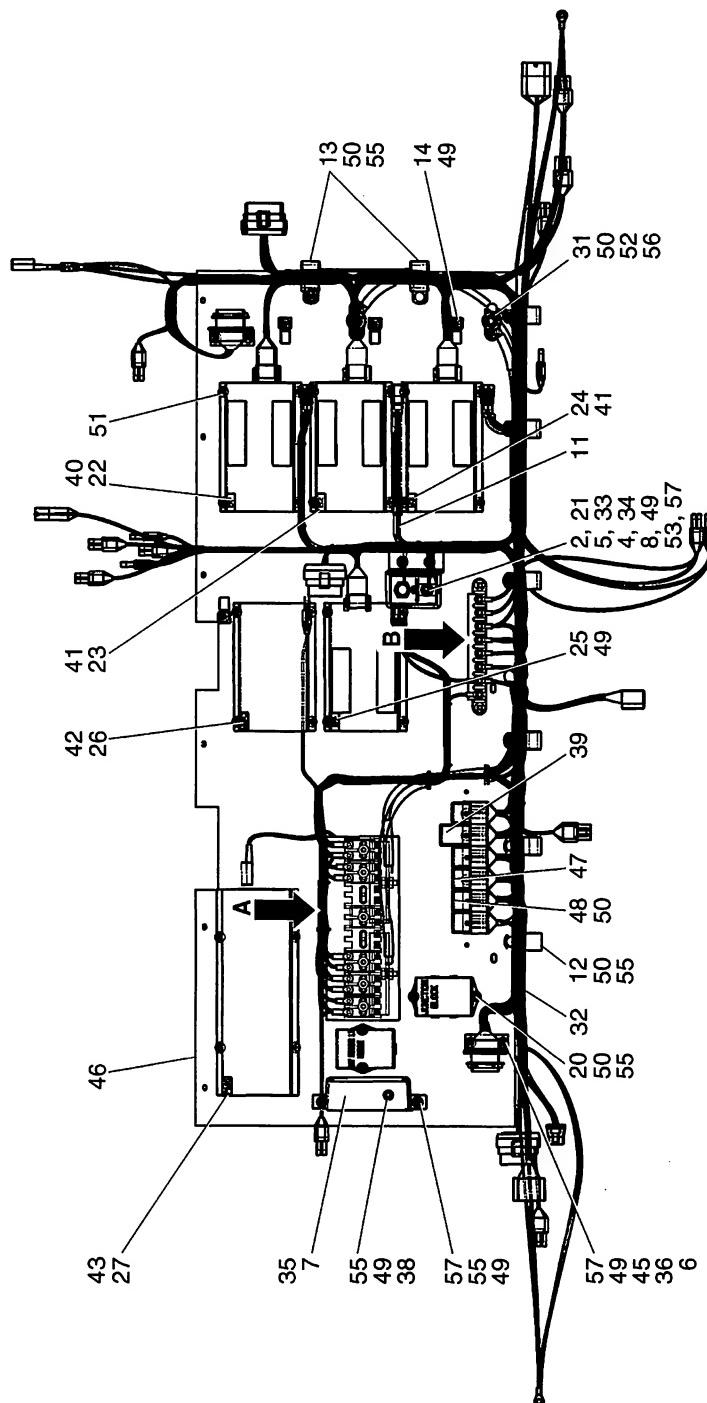
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03/01

PANEL, MAIN ELECTRICAL SYSTEM

REF	REV	QTY	PART NO	DESCRIPTION
	A		052601521	PANEL, MAIN ELECTRICAL SYSTEM
1		1	052671007	BLOCK, 8 STUD JUNCTION
2		1	051001537	SWITCH ASSEMBLY, ABS DIAGNOSTIC
3		8	021008506	BASE, CIRCUIT BREAKER
4		2	011001014	SWITCH, BOOT TOGGLE
5		1	051036002	BRACKET, ABS TEST MODULE
6		2	052663001	BRACKET, CONNECTOR R31
7		1	011001002	BRACKET, MAIN PANEL
8		1	BS-5050139	BULB, #1820 28V
9		2	051008165	BUSBAR, 8 CIRCUIT BREAKER
10		1	052653011	BUSBAR, 8 STUD BLOCK
11		1	052601502	CABLE, MAIN PANEL POWER
12		6	BS-5202303	CLAMP, RUBBER LINED 1" DIA.
13		2	BS-5202304	CLAMP, RUBBER LINED 1 1/4" DIA.
14		4	061063036	CLIP, FOR DT 8 WAY RECPT.
15		1	021008504	BREAKER, CIRCUIT 10AMP
16		8	021008510	BREAKER, CIRCUIT 20AMP
17		1	021008511	BREAKER, CIRCUIT 25AMP
18		1	021008512	BREAKER, CIRCUIT 30AMP
19		1	021008503	BREAKER, CIRCUIT 8AMP
20		1	052679507	JUNCTION BOX AND JUMPER, DATA
21		1	BS-5500137	DECAL, ABS DIAGNOSTIC
22		1	BS-5501620	DECAL, B1
23		1	BS-5501621	DECAL, B2
24		1	BS-5501622	DECAL, B3
25		1	BS-5501623	DECAL, B4
26		1	BS-5501616	DECAL, MBC
27		1	BS-5501634	DECAL, PMS
28		1	052653004	FIBERGLASS, FOR 8 CIRCUIT BREAKER
29		2	BS-4121114	SCREW, HEX HD THD 3/4"
30		8	BS-4204110	NUT, HEX #10 UNC ZP
31		2	BS-4204406	NUT, HEX 3/8" NF ZP
32		1	052604521	HARNESS, MAIN PANEL WIRING
33		1	011006031	LENS, BLANK RED
34		1	011003406	LIGHT, DASH SOCKET RECPT.
35		1	051070044	LIGHT, MAIN PANEL 24V WITH ON OFF SWITCH
36		2	051071528	LOCKWASHER
37		16	BS-4188151	SCREW, MACHINE M4 X 10 CH HD ST
38		1	061009003	MODULE, DAY TIME RUNNING LIGHT
39		1	051070015	MODULE, DIMMER INSTRUMENT 12V
40		2	052679403	MODULE, I/O CONTROLS DIO

* Indicates item not shown on illustration

PANEL, MAIN ELECTRICAL SYSTEM



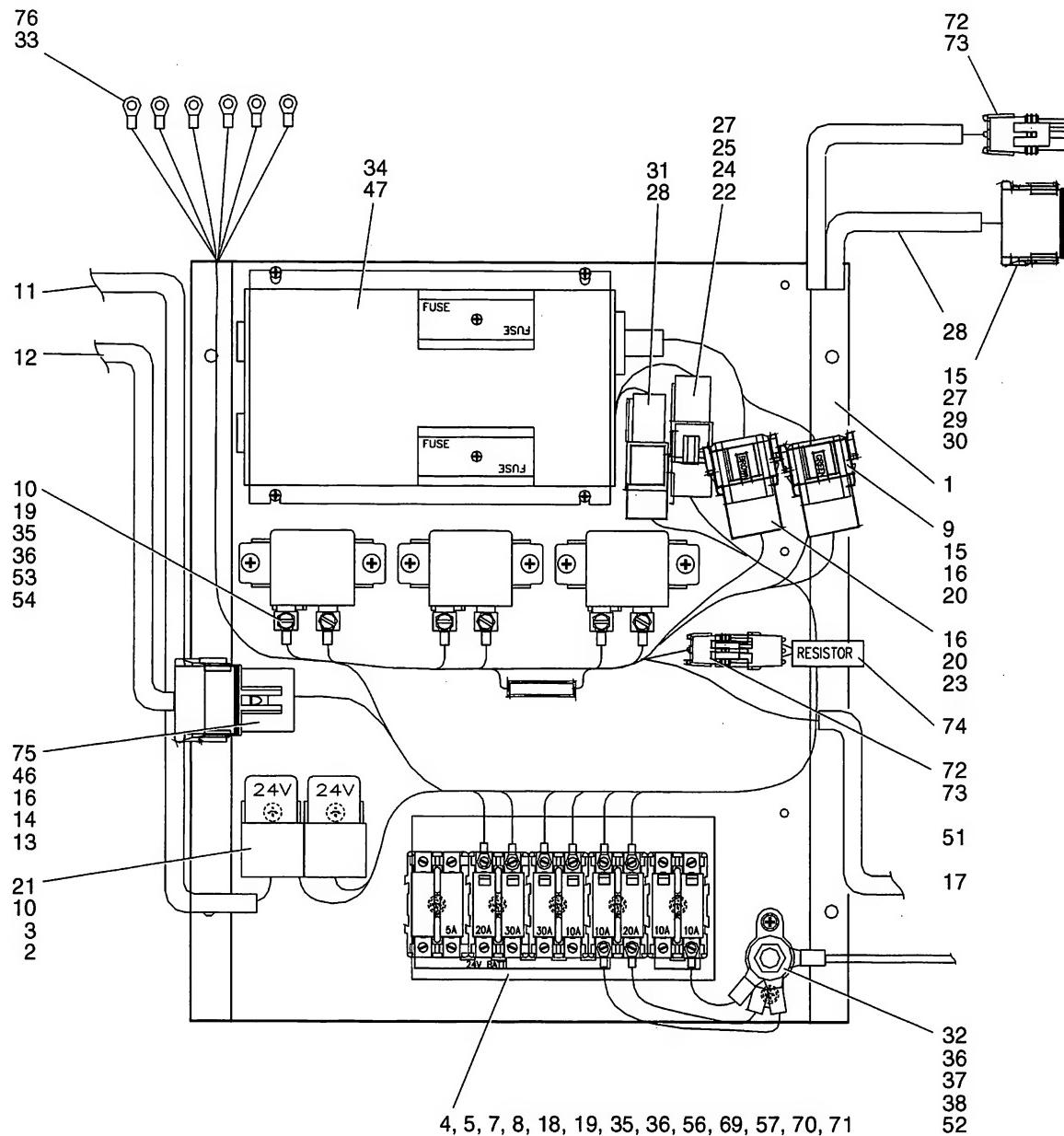
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PANEL, MAIN ELECTRICAL SYSTEM

REF	REV	QTY	PART NO	DESCRIPTION
41		1	052679404	MODULE, I/O CONTROLS HCNC
42		1	052679401	MODULE,I/O CONTOLS MBC
43		1	052679402	MODULE, I/O CONTROLS PMS W/LOW VOLTAGE
44		2	BS-4204304	NUT, HEX 1/4-20 ZP
45		2	051071527	LOCKNUT, PANEL
46		1	052601003	PLATE, MAIN PANEL
47		1	011021247	RELAY, 12V 20/30A DIODE
48		6	011021249	RELAY, 24V 10/20A DIODE
49		12	BS-4110505	SCREW, SELF TAPPING PH PAN #10 X 1/2"
50		25	BS-4110506	SCREW, SELF TAPPING PH PAN #10 X 5/8"
51		24	BS-4110405	SCREW, SELF TAPPING PH PAN #8 X 1/2"
52		2	011001402	STUD, TERMINAL BLOCK 3/8"
53		1	011004408	SWITCH, TOGGLE 2 TERMINAL OFF-ON
54		2	BS-4535207	WASHER, INTERNAL STAR 1/4
55		14	BS-4500104	WASHER, FLAT #10 ZP
56		2	BS-4520122	LOCKWASHER, 3/8" ZP
57		16	BS-4520104	LOCKWASHER, SPLIT #10

* Indicates item not shown on illustration

PANEL, HEATER CONTROL

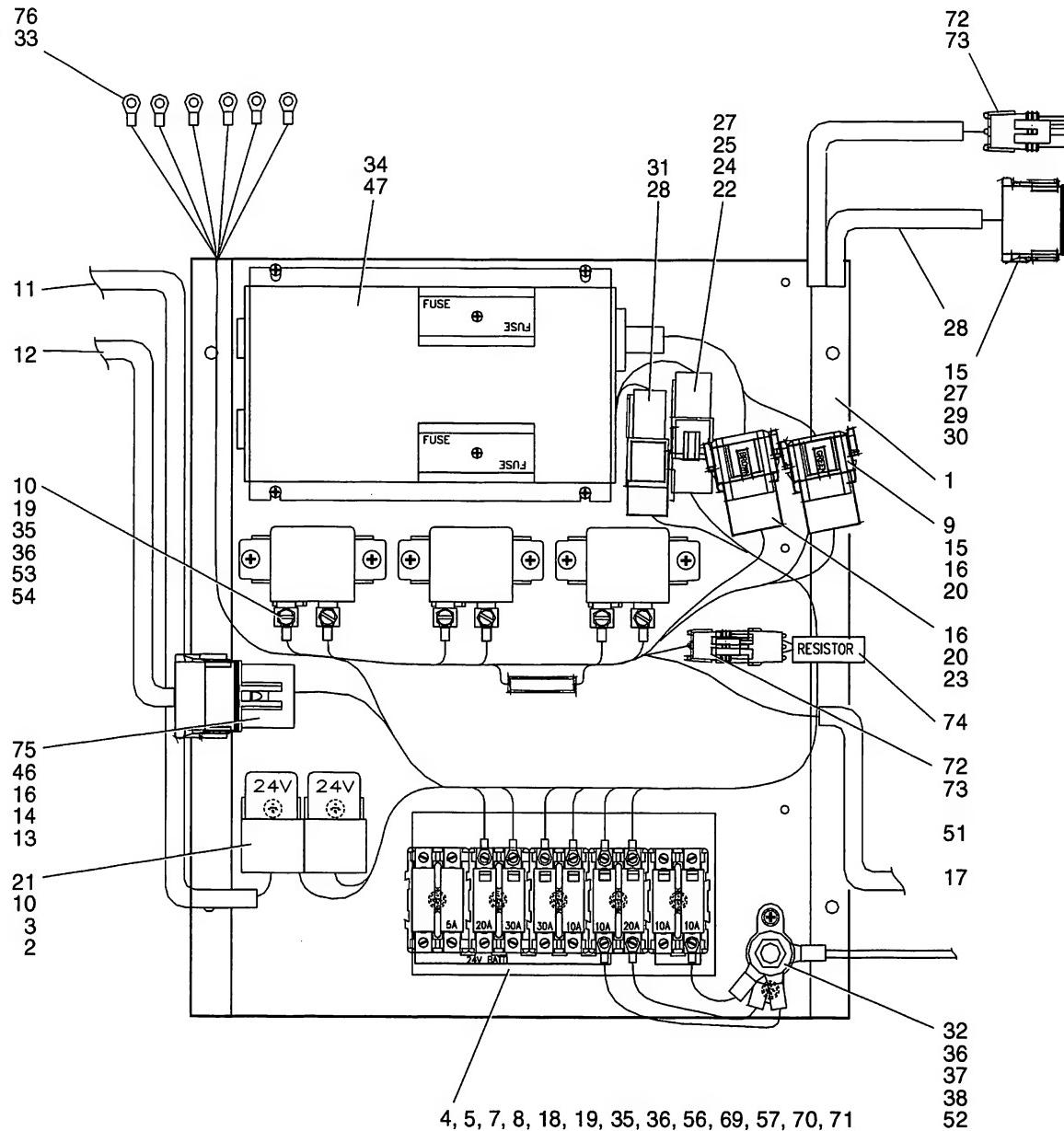
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PANEL, HEATER CONTROL

REF	REV	QTY	PART NO	DESCRIPTION
				PANEL, HEATER CONTROL
1		1	052613001	PLATE, FOR HEATER PANEL
2		4	011001071	BASE, RELAY
3		4	011021249	RELAY, 24V 10/20A W/DIODE
4		5	021008506	BASE, CIRCUIT BREAKER
5		2	021008510	BREAKER, CIRCUIT 20AMP
* 6				NOT APPLICABLE
7		1	052653004	INSULATOR, FIBERGLASS
8			021008502	BREAKER, CIRCUIT 5AMP
9		1	061063030	CONNECTOR, RECEPTACLE 8 PIN GREEN DEUTSCH
10		22	011005015	RECEPTACLE, FASTON CONNECTOR AMP
11		1	052613507	HARNESS, REGULATOR RELAY
12		1	052613509	HARNESS, HEATER VALVE
13		1	061063035	LOCK, DEUTSCH 12 WAY DT RCPT
14		1	061063030	CONNECTOR, RECEPTACLE 12 PIN GREY DEUTSCH
15		7	061063042	PLUG, CAVITY DEUTSCH
16		25	061063009	CONTACT, PIN DEUTSCH 16-18GA
17		1	051098600	CABLE, HEATER POWER 24V
18		4	BS-5201211	RING, TERMINAL BLUE #10
19		12	BS-5201110	RING, TERMINAL YELLOW #10
20		2	061063011	LOCK, RECEPTACLE 8 WAY DEUTSCH
21		4	BS-4110535	SCREW, SELFTAP #10 X 1/2 PH PA SS
22		1	051071515	CONNECTOR, DEUTSCH 3 WAY PLUG
23		1	061063004	CONNECTOR, RECEPTACLE DEUTSCH BROWN 8 WAY
24		1	051071039	LOCK, DEUTSCH 3 WAY PLUG
25		2	051071063	PIN, CONTACT 14-16 AWG
* 26		1	BS-5003303	LOOM, 1/2" CORRG. SPLIT NYLON
27		10	061063010	CONTACT, SOCKET 16-18 GA DTSCH
28		1	061063087	CONNECTOR, DEUTSCH DT 10 GA. 1 WAY PLUG
29		1	061063026	CONNECTOR, DEUTSCH DT 12 WAY PLUG GRAY
30		1	061063034	LOCK, DEUTSCH 12 WAY DT PLUG
31		1	061063088	CONTACT, SOCKET 8-10 GA DTSCH
32		1	BS-4204306	NUT, HEX 3/8-16 ZP
33		6	BS-5201113	TERMINAL, RING YELLOW 1/4"
34		4	BS-4110405	SCREW, SELFTAP #8 X 1/2" LG PAN HD
35		13	BS-4530107	WASHER, STAR #10
36		13	BS-4110506	SCREW, SELFTAP #10 X 5/8" PH PA BZC
37		1	011001402	STUD, TERMINAL BLOCK 3/8"
38		1	BS-4500122	WASHER, FLAT 3/8" ZP
* 39		1	BS-5000169	WIRE, 16GA SXL WHITE
* 40		1	BS-5000168	WIRE, 16GA SXL RED

* Indicates item not shown on illustration

PANEL, HEATER CONTROL

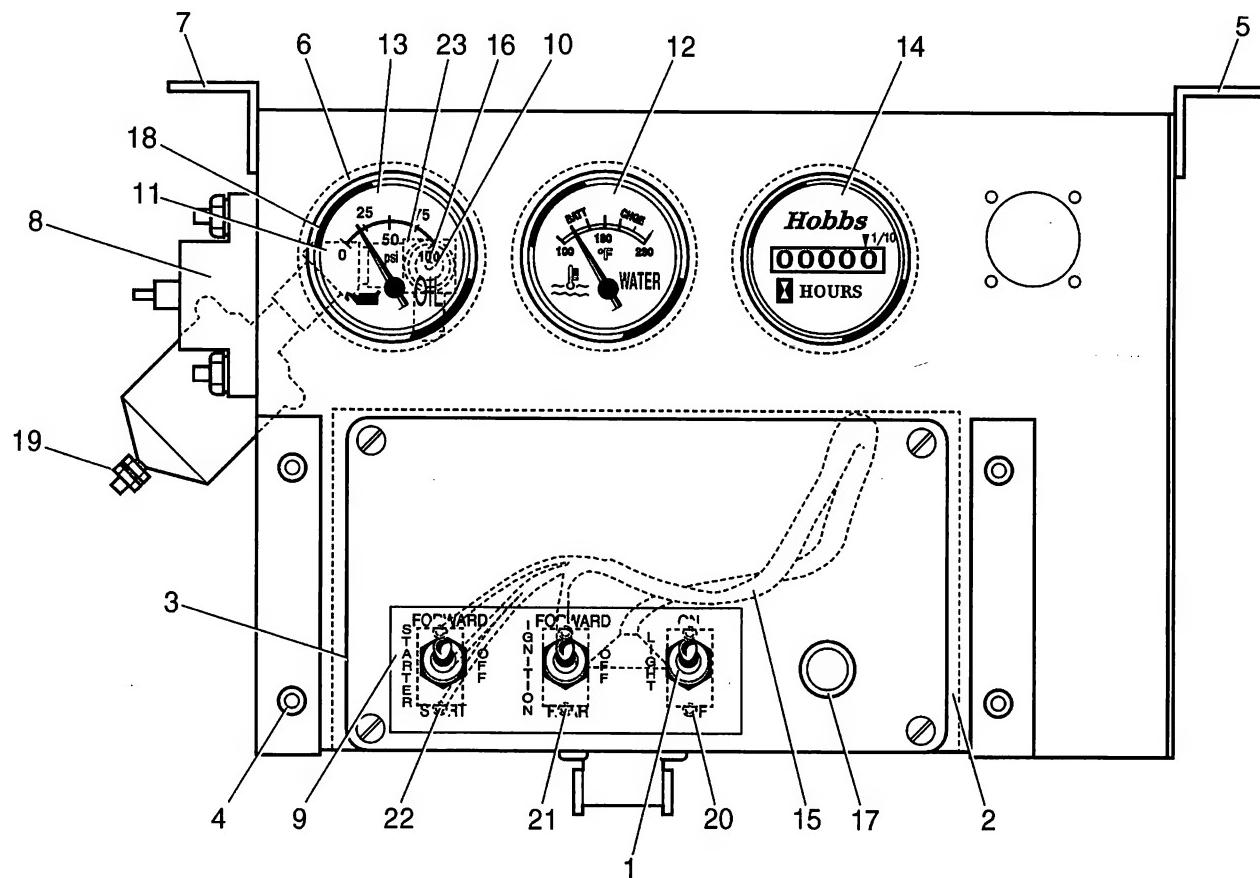
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PANEL, HEATER CONTROL

REF	REV	QTY	PART NO	DESCRIPTION
* 41		1	BS-5000155	WIRE, 14GA SXL BLACK
* 42		1	BS-5000156	WIRE, 14GA SXL BLUE
* 43		1	BS-5000152	WIRE, 10GA SXL RED
* 44		1	BS-5000154	WIRE, 10GA SXL YELLOW
* 45		1	BS-5000162	WIRE, 14GA SXL YELLOW
46				NOT APPLICABLE
47		1	052679403	MODULE, I/O CONTROL DIO
* 48		2	BS-5203170	CONTACT, PIN 14-16GA DEUTSCH
* 49		1	061032503	RESISTOR, PLUG ONE 1KOHM 2 PIN
* 50		3	021074460	CONNECTOR, 2 SOCKET PLUG W/P
51		1	052613515	HARNESS, HEATER BLOWER
52		2	BS-5201116	RING, TERMINAL YELLOW 3/8"
53			051039016	RELAY, 24V 50AMP W/DIODE
54		3	BS-5203102	HOUSING, CONN. RECPT
* 55		1.5	BS-5003302	LOOM .375" CORRG. SPLIT NYON
56		2	021008504	BREAKER, CIRCUIT 10AMP
57		2	021008512	BREAKER, CIRCUIT 30AMP
* 58		1	BS-5000187	WIRE, 18GA BLUE SXL
* 59		1	BS-5000182	WIRE, 18GA BROWN SXL
* 60		1	BS-5000186	WIRE, 18GA GREEN SXL
* 61		1	BS-5000185	WIRE, 18GA YELLOW SXL
* 62		1	BS-5000188	WIRE, 18GA WHITE SXL
* 63		1	BS-5000181	WIRE, 18GA BLACK SXL
* 64		1	BS-5000184	WIRE, 18GA ORANGE SXL
* 65		1	BS-5000150	WIRE, 10GA SXL GREEN
* 66		1	BS-5000163	WIRE, 16GA SXL BLACK
* 67		1	BS-5000153	WIRE, 10GA SXL WHITE
* 68		1	BS-5000183	WIRE, 18GA SXL WHITE
69		1	BS-5201221	RING, TERMINAL # 10 RED INSULATED
70		2	021008513	BUS BAR, 4 WAY TERMINAL BLOCK
71		1	021008514	BUS BAR, 2 WAY TERMINAL BLOCK
72		1	021074460	CONNECTOR, 2 SOCKET PLUG WITH PIN
73		2	061071009	TERMINAL, SOCKET AND SEAL 18 GA W/P
74		1	061032503	RESISTOR, PLUG 1 K. OHM
75		2	051071062	PIN, CONTACT 14-16 AWG
76		1	BS-5201214	TERMINAL, RING BLUE 1/4"

* Indicates item not shown on illustration

BOX ASSEMBLY, ENGINE



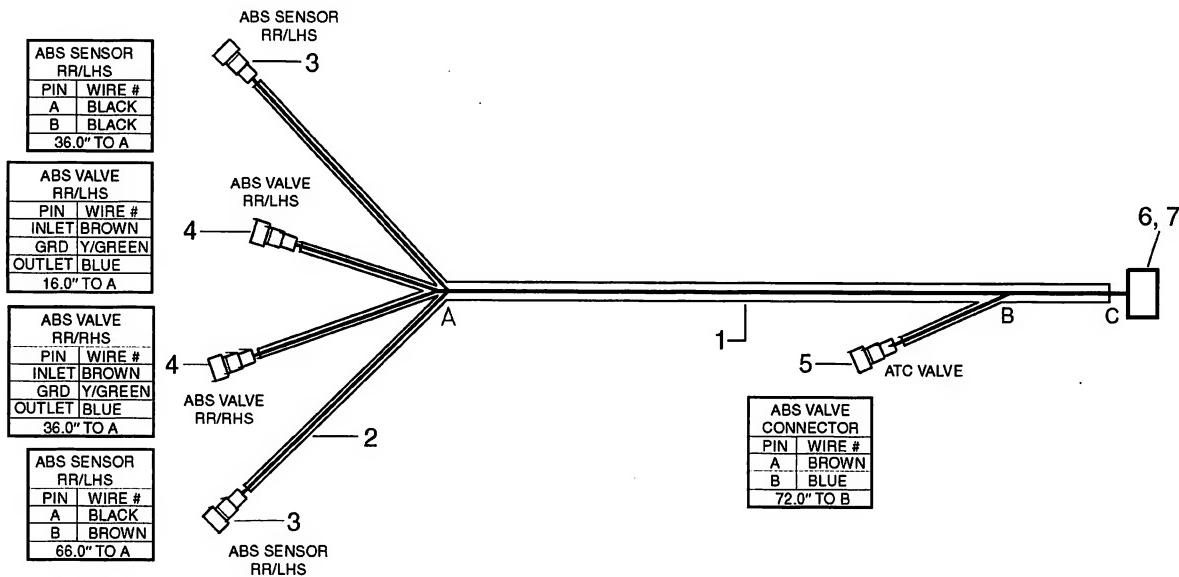
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BOX ASSEMBLY, ENGINE

REF	REV	QTY	PART NO	DESCRIPTION
				BOX ASSEMBLY, ENGINE
1		3	011001014	BOOT, TOGGLE SWITCH
2		1	052615001	BOX, ENGINE
3		1	052615005	BOX, ENGINE COVER
4		1	052615006	BRACKET, BOX MOUNTING
5		1	052615002	BRACKET, MOUNT ENGINE BOX CS
6		1	052615007	BRACKET, ENGINE MOUNTING GAUGES
7		1	052615003	BRACKET, MOUNT ENGINE BOX RS
8		1	051033421	BREAKER, CIRCUIT 15 AMPS MANUAL RESET
9		1	BS-5500109	DECAL, STARTER LIGHTS
10		1	BS-6002301	ELBOW, 90° 1/4" PX 7/16"
11		1	BS-6000662	ELBOW, 45° STREET 4-4S
12		1	051031027	GAUGE, ENGINE WATER TEMPERATURE
13		1	051031037	GAUGE, ENGINE OIL PRESSURE
14		1	010201412	METER, HOUR
15		1	052615508	HARNESS, ENGINE BOX
16		2	BS-6123122	PIPE, COUPLING 1/4" BRASS
17		1	BS-2634110	PLUG, RUST PROOFING PLASTIC
18				NOT APPLICABLE
19				NOT APPLICABLE
20		1	011005402	SWITCH, TOGGLE 2TERM ON-OFF
21		1	011005401	SWITCH, TOGGLE 3TERM ON-OFF-ON
22		1	031001560	SWITCH, TOGGLE 3TERM ON-OFF-ON
23				NOT APPLICABLE
* 24		1	052615501	HARNESS, ENGINE COMPARTMENT
* 25		1	051096595	HARNESS, DIAGNOSTIC CONNECTOR ISM ENGINE
* 26		1	052615501	HARNESS, ENGINE COMPARTMENT
* 27		1	051096593	HARNESS, ISM/VOITH
* 28		1	051013599	HARNESS, ADAPTER FAN HYDRAULIC

* Indicates item not shown on illustration

HARNESS, ABS REAR CHASSIS

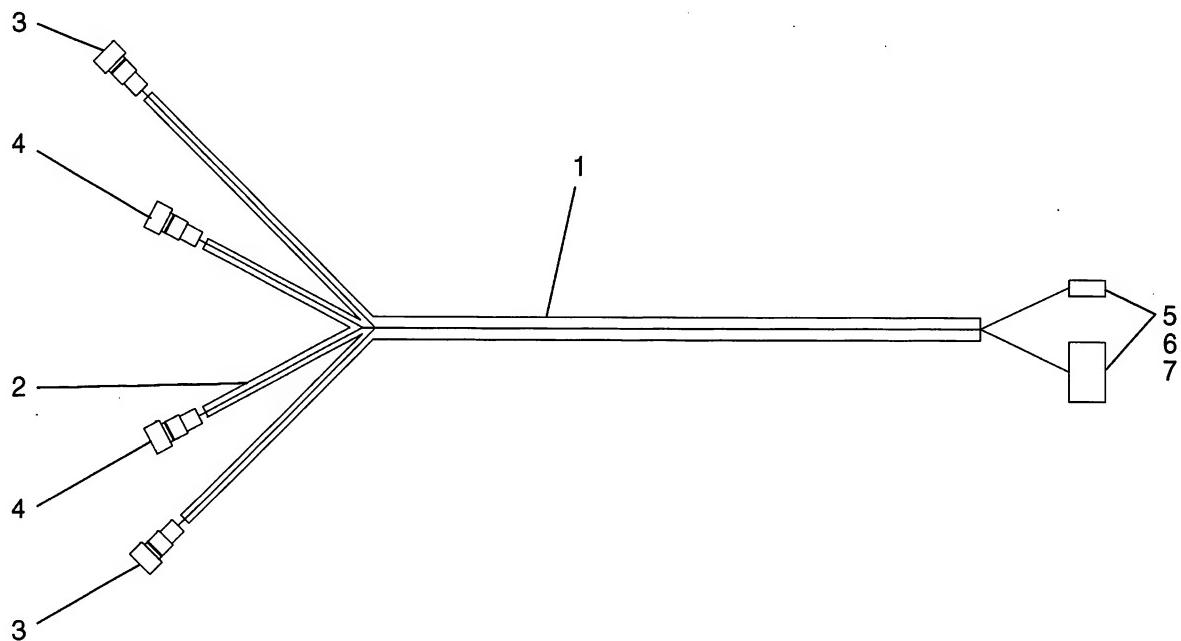
10-1049.fm
02/00

HARNESS, ABS REAR CHASSIS

REF	REV	QTY	PART NO	DESCRIPTION
	C		051036525	HARNESS, ABS REAR CHASSIS
1		11	BS-5003307	LOOM, CORRUGATED SPLIT NYLON 1.0
2		15	BS-5003302	LOOM, CORRUGATED SPLIT NYLON .38
3		2	051036517	CABLE, ABS SENSOR 5M
4		2	051036519	CABLE, ABS MODULATOR VALVE, 6M
5		1	051036522	CABLE, ABS ATC VALVE, 15M
6		1	051071585	CONNECTOR, 15 WAY PLUG
7		10	051071589	SOCKET, TERMINAL, AMP TIN
*8		1	051231504	UNIT, ELECTRONIC CONTROL ABS FRONT/REAR

* Indicates item not shown on illustration

HARNESS, ABS FRONT CHASSIS



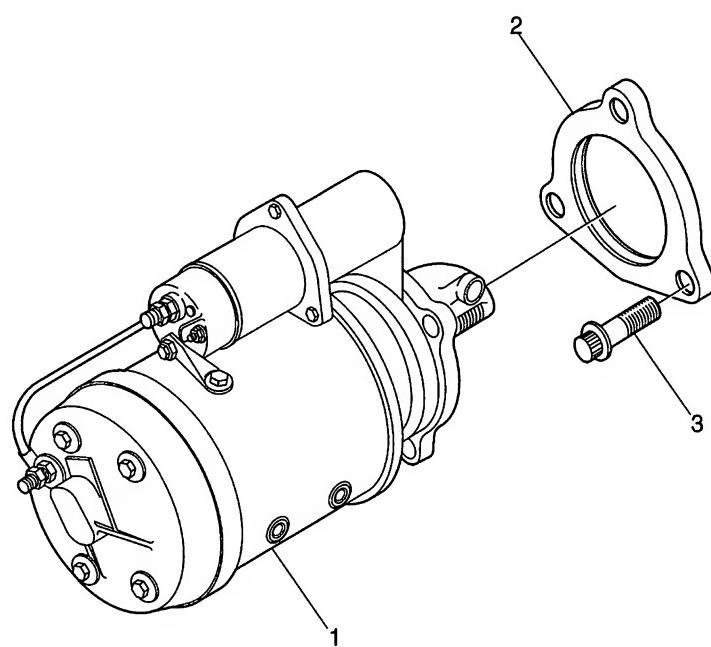
10-1080.fm
03/00

HARNESS, ABS FRONT CHASSIS

REF	REV	QTY	PART NO	DESCRIPTION
	B		051036526	HARNESS, ABS FRONT CHASSIS
			3844-0003	HARNESS, ABS FRONT CHASSIS (4S4W) - 40'
1		15	BS-5003307	LOOM, CORRUGATED SPLIT NYLON, 1.0
2		9	BS-5003302	LOOM, CORRTED SPLIT NYLON, .38
3		2	051036518	CABLE, ABS SENSOR (12M) WABCO
4		2	051036520	CABLE, ABS MOD VALVE CABLE (12M)
5		1	051071586	CONNECTOR, 9-WAY PLUG
6		1	051071587	CONNECTOR, 6-WAY PLUG
7		1	051071589	SOCKET, TERMINAL

* Indicates item not shown on illustration

MOTOR, STARTER



10-4013.fm
01/01

MOTOR, STARTER

REF	REV	QTY	PART NO	DESCRIPTION
				MOTOR, STARTER
1		1	E0502583AB	MOTOR, STARTER 24V
2		1	E0502583AC	SPACER, STARTER MOTOR
3		1	E0502583AD	SCREW, TWELVE POINT CAP

** Indicates item not shown on illustration*

CHART, IDENTIFICATION

ILLUSTRATION NOT AVAILABLE

10-9006.fm
05/01

CHART, IDENTIFICATION

REF	REV	QTY	PART NO	DESCRIPTION
				CHART, IDENTIFICATION
* 1		1	051097045	CHART, HEAT PANEL
* 2		1	052680089	DECAL, MAIN PANEL
* 3		1	052680090	DECAL, FRONT DOOR PANEL
* 4		1	052680091	DECAL, ENGINE BOX
* 5		1	052680092	DECAL, EXIT DOOR PANEL
* 6		1	052680045	DECAL, POWER DISTRIBUTION
* 7		1	051097050	CHART, ID E-ZONE PANEL

* Indicates item not shown on illustration

CABLE, DATABUS AND POWER

ILLUSTRATION NOT AVAILABLE

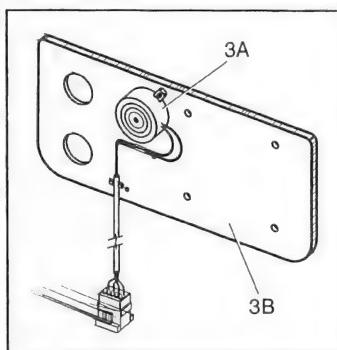
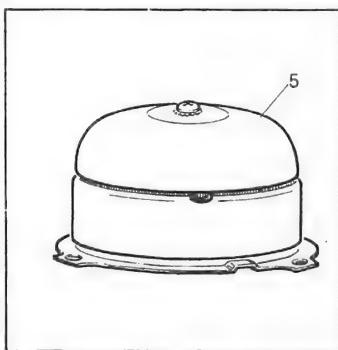
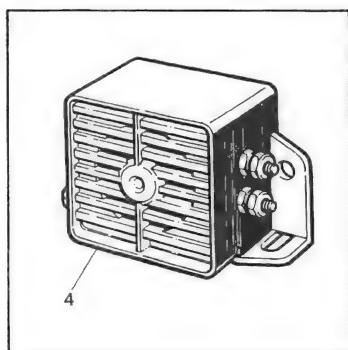
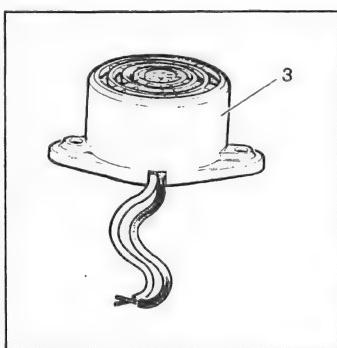
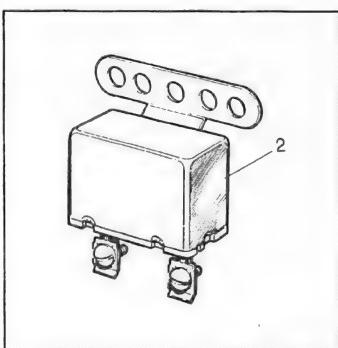
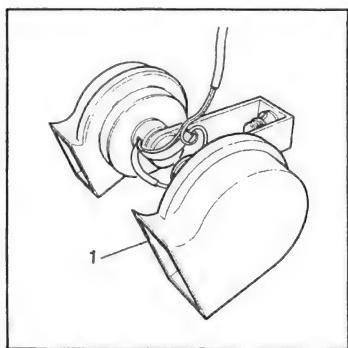
10-1124.fm
05/01

CABLE, DATABUS AND POWER

REF	REV	QTY	PART NO	DESCRIPTION
				CABLE, DATABUS AND POWER
* 1		1	052622512	HARNESS, E-ZONE POWER HEATER
* 2		1	052622505	CABLE, B ZONE POWER 12/24V
* 3		1	052622523	CABLE, POWER C TO D ZONE
* 4		1	052622521	CABLE, POWER HEATER PANEL TO FRONT PANEL
* 5		1	052679505	CABLE, DATABUS E TO D ZONE
* 6		1	052679506	CABLE, DATABUS D TO C ZONE
* 7		1	051046429	CABLE, DATABUS A TO H ZONE
* 8		1	052679508	HARNESS, DATABUS B TO C
* 9		1	051046428	CABLE, DATABUS A TO E ZONE
* 10		1	051046516	HARNESS, BACK BONE TO BATTERY
* 11		1	051046506	HARNESS, CABLE NODE
* 12		2	051071167	CONNECTOR, TERMINATOR
* 13		2	051071165	CONNECTOR, Y-INTERCONNECT 3 POSITION

* Indicates item not shown on illustration

SIGNALS, AUDIBLE



10-4106-1154A.fm
04/01

SIGNALS, AUDIBLE

REF	REV	QTY	PART NO	DESCRIPTION
				SIGNALS, AUDIBLE
1		1	051016402	HORN, 24V 490-510 HZ
* 1B*		1	051016513	HARNESS, GROUND
* 1C*		1	051016003	BRACKET, HORN
2				NOT APPLICABLE
3				NOT APPLICABLE
3A				NOT APPLICABLE
3B				NOT APPLICABLE
4		1	031001533	ALARM, 12/24 VOLT BACK UP/KNEELING
* 4A		1	051017548	JUMPER, BACKUP ALARM
5		1	051017532	BELL, FIRE ALARM
* 6		1	051017549	DIODE ASSEMBLY, BACK UP/KNEELING ALARM

* Indicates item not shown on illustration

BATTERY SYSTEM

ILLUSTRATION NOT AVAILABLE

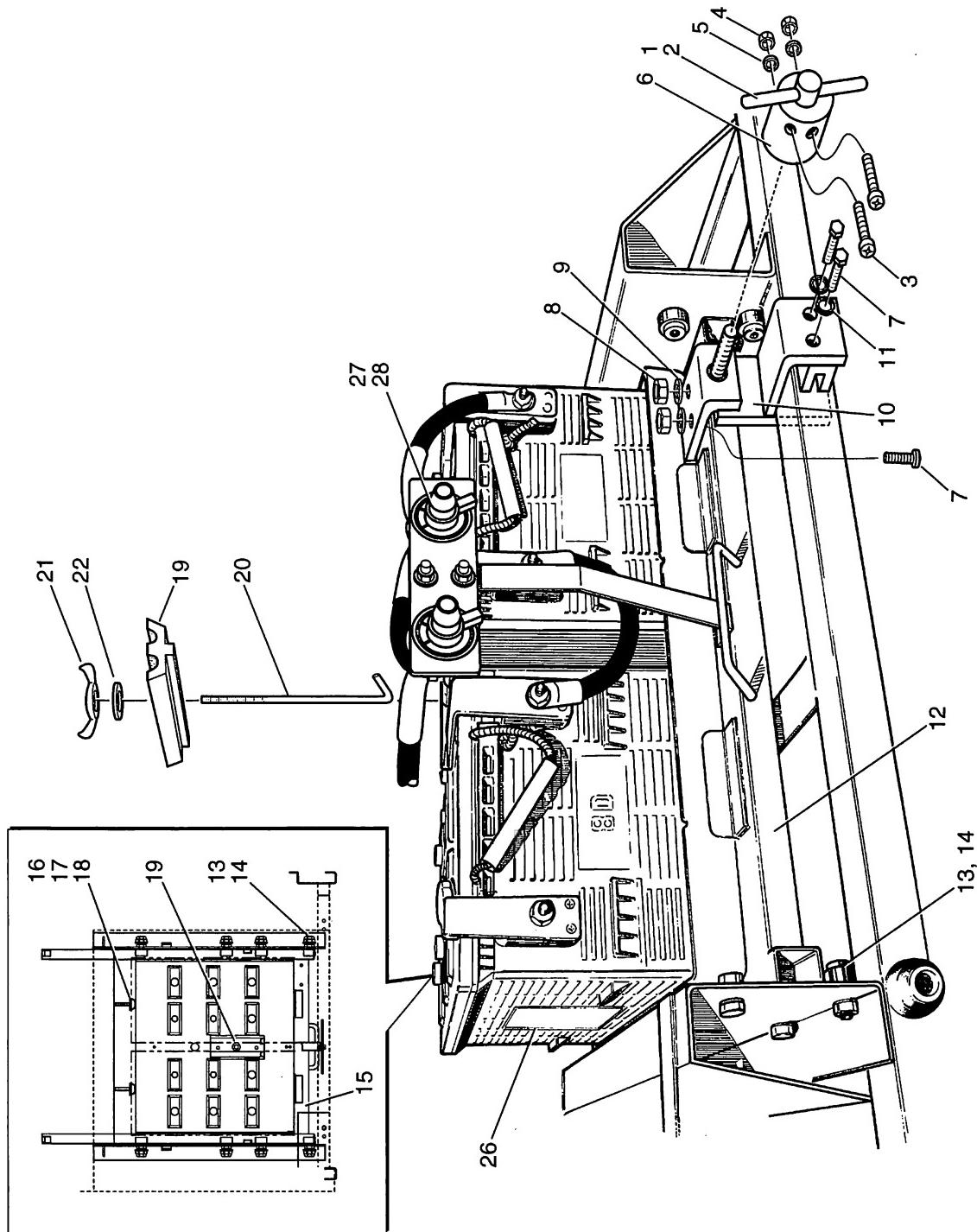
10-4523-1154A.fm
04/01

BATTERY SYSTEM

REF	REV	QTY	PART NO	DESCRIPTION
BATTERY SYSTEM				
* 1		2	051099006	BATTERY, INTERSTATE 8D
* 2		2	051029504	SWITCH, BATTERY DISC POLLAK # 5
* 3		2	051008021	BEZEL, BATTERY
* 4		4	BS-4121116	SCREW-HXHD 1/4-20NCX1" ZP
* 5		4	BS-4202304	NUT-NYLOCK 1/4-20NC ZPL G
* 6		8	BS-4500120	WASHER-FLAT 1/4" C/ZPL
* 7		1	BS-5500266	DECAL, BATTERY BOOST 24V
* 8		1	051098589	CABLE, BATTERY 12V
* 9		1	051098590	CABLE, BATTERY 24V
* 10		1	051098588	CABLE, BATTERY GND 70"
* 11		1	051098580	CABLE, 4/O,3/8-3/8,10"
* 12		1	051098581	CABLE, 4/O,3/8-3/8,9"
* 13		1	051098511	CABLE, BATTERY POSITIVE TO MASTER SWITCH
* 14		2	051008040	SPRING, CABLE
* 15		2	051008041	BRACKET, CABLE
* 16		8	BS-4128116	HX HD SCR 1/4-20 X 1" SS
* 17		8	BS-4128122	1/4-20X2-1/2 SS HEX HD CA
* 18		1	BS-4162002	BOLT-BATTERY HOLDDOWN 5/16N
* 19		1	BS-4202505	NYLON INSERT LOCKNUT 5/16-1
* 20		2	BS-4501107	WASHER-SS 5/16 .344 ID .6
* 21		20	BS-4501120	WASHER-FLAT (1/4") SS
* 22		2	BS-5202751	CLAMP 1.13DIA HITMP S/S .
* 23		2	BS-5202755	CLAMP .75DIA HITMP S/S .3
* 24		2	BS-5202757	CLAMP-2.00 DIA HITMP SS .
* 25		2	051019007	ADAPTER, BATTERY SIDE

* Indicates item not shown on illustration

TRAY, PULL OUT BATTERY INSTALLATION

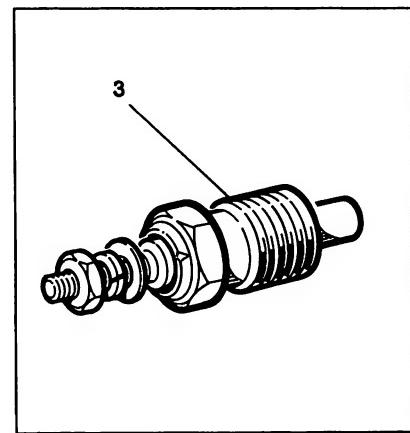
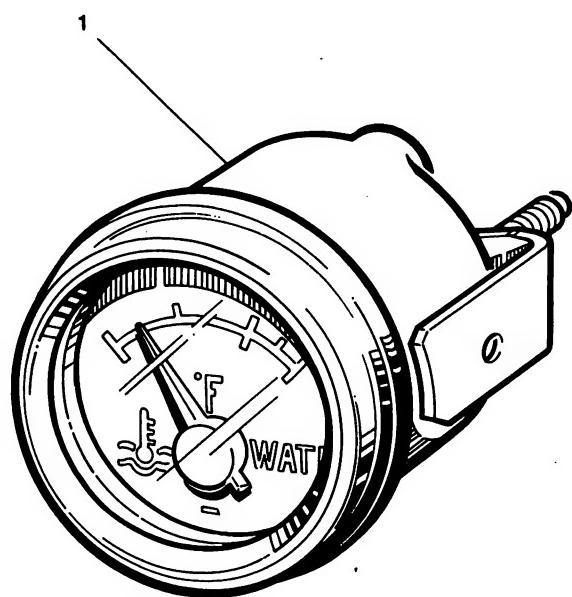
10-4516-1154A.fm
09/00

TRAY, PULL OUT BATTERY INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
				TRAY, PULL OUT BATTERY INSTALLATION
1		1	051009014	HANDLE, BATTERY TRAY LOCK
2		1	BS-4521126	LOCKWASHER 5/8 SPLIT
3		2	BS-4108541	SCREW MACH. #10-24 X 1.5 PH PA SS
4		2	BS-4202502	NUT NYLOCK #10-24 SS
5		2	BS-4501104	WASHER FLAT #10 SS
6		1	051009412	ANGLE ASSEMBLY, BATTERY TRAY LOCK
7		4	BS-4128116	SCREW HX HD 1/4-20 X 1" SS
8		2	BS-4200523	NUT - LOCK 1/4 UNC SS
9		2	BS-4501106	WASHER FLAT SS 1/4
10		1	051009009	BRACKET, BATTERY TRAY LOCK
11		2	BS-4521120	LOCKWASHER 1/4" NOM. SS
12		1	051008099	PAN, PULL OUT 2 BATTERY CONF.
13		8	051008132	BEARING - 1.50 X .63NF STUD
14		8	BS-4219210	NUT NYLOCK INSERT 5/8-18NF
15		1	051046425	WELDMENT, T-PULL/OUT BATTERY TRAY
16		2	011815512	BUMPER, 5/16 NC ROUND RUBBER
17		4	BS-4204305	NUT - HEX 5/16 NC BRT ZN PLD GR 5
18		4	BS-4500121	WASHER 5/16 FL. CAD. ZINC PL
19		1	051008131	SPACER, BATTERY HOLDDOWN RBRMAT
20		1	011008253	BOLT- HOLDDOWN 5/16NC X 10.75
21		1	BS-4210115	WINGNUT 5/16 NC ZP
22		1	BS-4500121	WASHER 5/16 FL CAD. ZINC PL
* 23		1	BS-5500161	DECAL, CAUTION VE
* 24		1	BS-5500267	DECAL, BATTERY BOOST 24V
* 25	A	1		NOT APPLICABLE
26		2	See Page 10-75	BATTERY, INTERSTATE 8D
27		2	See Page 10-75	SWITCH BATTERY DISCONNECT
28		2	See Page 10-75	BEZEL, BATTERY

* Indicates item not shown on illustration

GAUGES, WATER TEMPERATURE



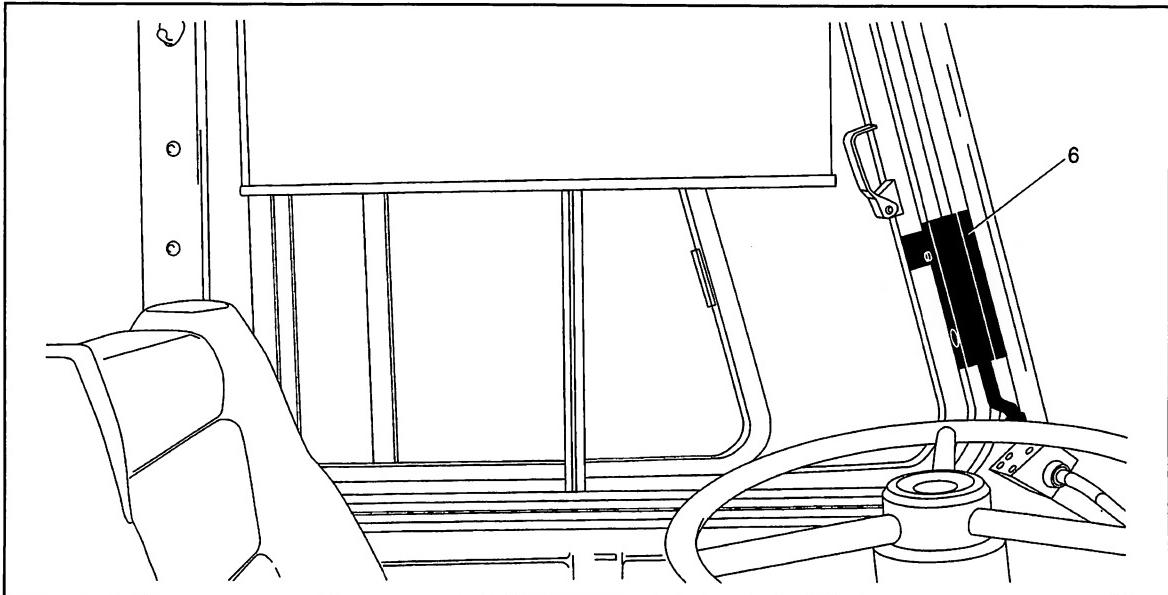
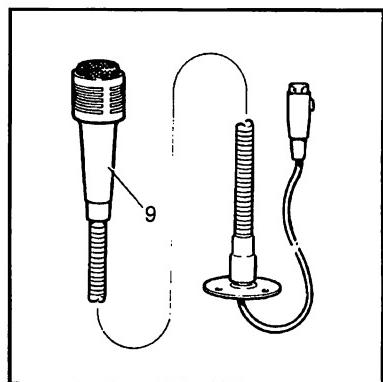
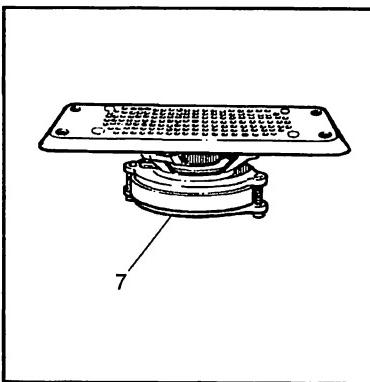
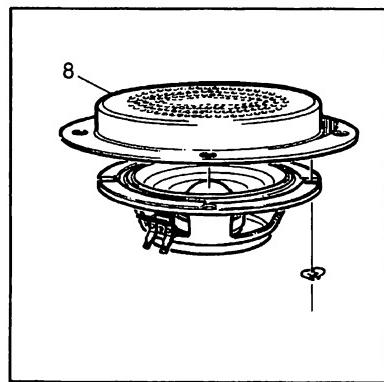
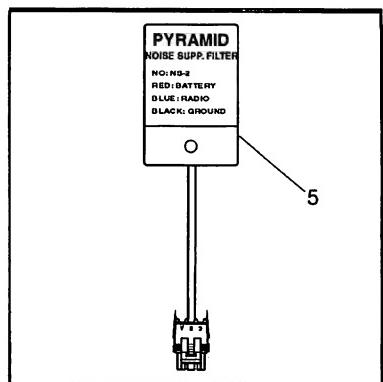
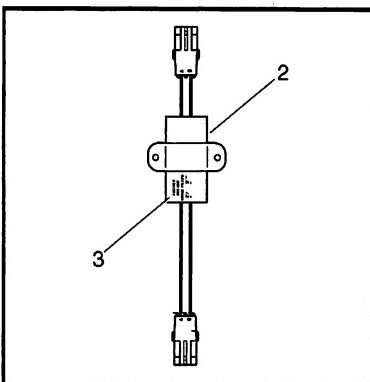
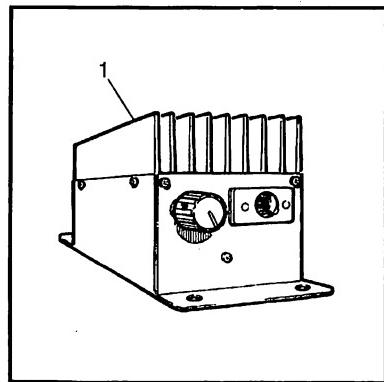
10-4204-1154A.fm
03/01

GAUGES, WATER TEMPERATURE

REF	REV	QTY	PART NO	DESCRIPTION
				GAUGES, WATER TEMPERATURE
1		1	051031033	SENDER, WATER TEMPERATURE
*2		1	BS-6000066	ADAPTER, 8PX6P
3				NOT APPLICABLE

* Indicates item not shown on illustration

PUBLIC ADDRESS SYSTEM



10-5089-1154A.fm
04/01

PUBLIC ADDRESS SYSTEM

REF	REV	QTY	PART NO	DESCRIPTION
				PUBLIC ADDRESS SYSTEM
1		1	051062531	AMPLIFIER ASSEMBLY, P.A. SYSTEM NO FILTER
* 1A		1	011060501	AMPLIFIER, MOBILPAGE 470CE
2		1	051096597	FILTER, NOISE ASSEMBLY PA SYSTEM 12V
3		1	011060034	SUPPRESSOR, NOISE PA SYSTEM 12V
* 4				NOT APPLICABLE
5				NOT APPLICABLE
6		1	051060451	CLIP, MICROPHONE 3/4" BLACK
7		1	011060250	SPEAKER, 8 OHMS EXTERIOR (LOUVERED)
8		6	051060580	SPEAKER AND BAFFLE ASSEMBLY, SEMI FLUSH
* 8A		1	A1060503AB	.BAFFLE, SPEAKER
9		1	011060542	MICROPHONE, WITH NOISE FILTER
* 10		1	051060001	BRACKET, MICROPHONE

* Indicates item not shown on illustration

11.

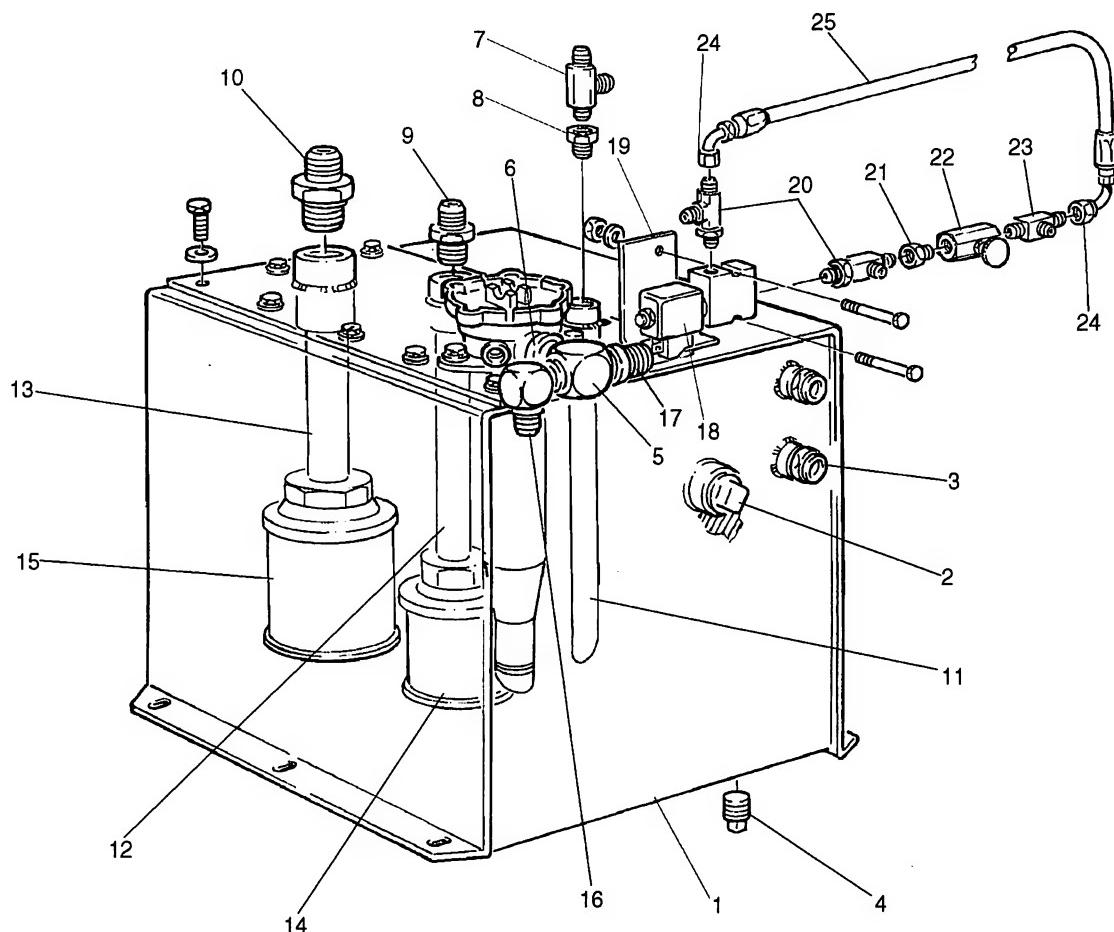
Hydraulic System

Orion Bus Industries



Section 11: *HYDRAULIC SYSTEM*

TANK ASSEMBLY, 15 GALLON COMPLETE

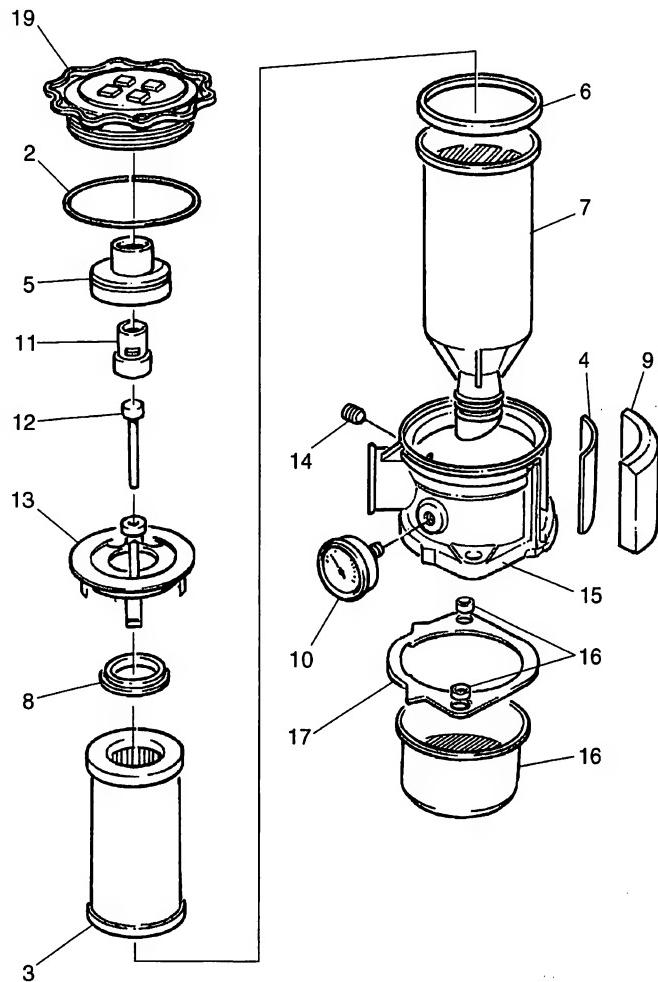


11-1521.fm
08/00

TANK ASSEMBLY, 15 GALLON COMPLETE

REF	REV	QTY	PART NO	DESCRIPTION
				TANK ASSEMBLY, 15 GALLON COMPLETE
1		REF	050805516	TANK ASSEMBLY, MAIN
2		1	BS-6000205	PLUG, 3/4" PIPE (STEEL)
3		2	C0805502AB	GLASS, SIGHT LEVEL
4		1	BS-6000105	PLUG, DRAIN
5		1	BS-6000805	TEE, FEMALE ST PIPE - 3/4
6		1	NPN	SAE12 O-RING 3/4NPT CONNECTOR
7		1	BS-6003506	TEE - 3/8T
8		1	NPN	REDUCER, 3/4NPT - 3/8NPT
9		1	BS-6002028	ADAPTER, STRAIGHT 1P X 1-5/16T
10		1	BS-6002035	1 1/2 NPT-20JIC CONNECTOR
11		1	NPN	3/4 " PIPE NIPPLE 11" LONG
12		1	BS-6001620	FITTING, NIPPLE 1" X 7-1/2" LONG
13		1	BS-6001813	FITTING, NIPPLE 1-1/2" X 5" LONG
14		1	F0805514AD	SUCTION STRAINER SR25
15		1	F0805526AD	SUCTION STRAINER SU55
16		1	BS-6002380	ELBOW, 90° 3/4 NPT-10JIC
17		1	BS-6002087	CONNECTOR, MALE-3/4P X 1 THD
18		1	050717502	VALVE ASSEMBLY, SOLENOID 24V
19		REF	050805004	BRACKET, SOLENOID VALVE
20		2	BS-6010001	TEE - #4 JIC X #4
21		1	BS-6003304	ADAPTER - MALE 1/8" NPT TO FEMALE #4 JIC
22		1	050717501	VALVE, NEEDLE - FAN MOTOR CONTROL
23		1	BS-6003501	TEE - 1/8" NPT TO #4 JIC
24		2	BS-6301320	FITTING, HOSE 90 #4 JIC
25		1	BS-2613401	HOSE, FC-300 #4
<i>* Indicates item not shown on illustration</i>				

FILTER ASSEMBLY, HYDRAULIC TANK

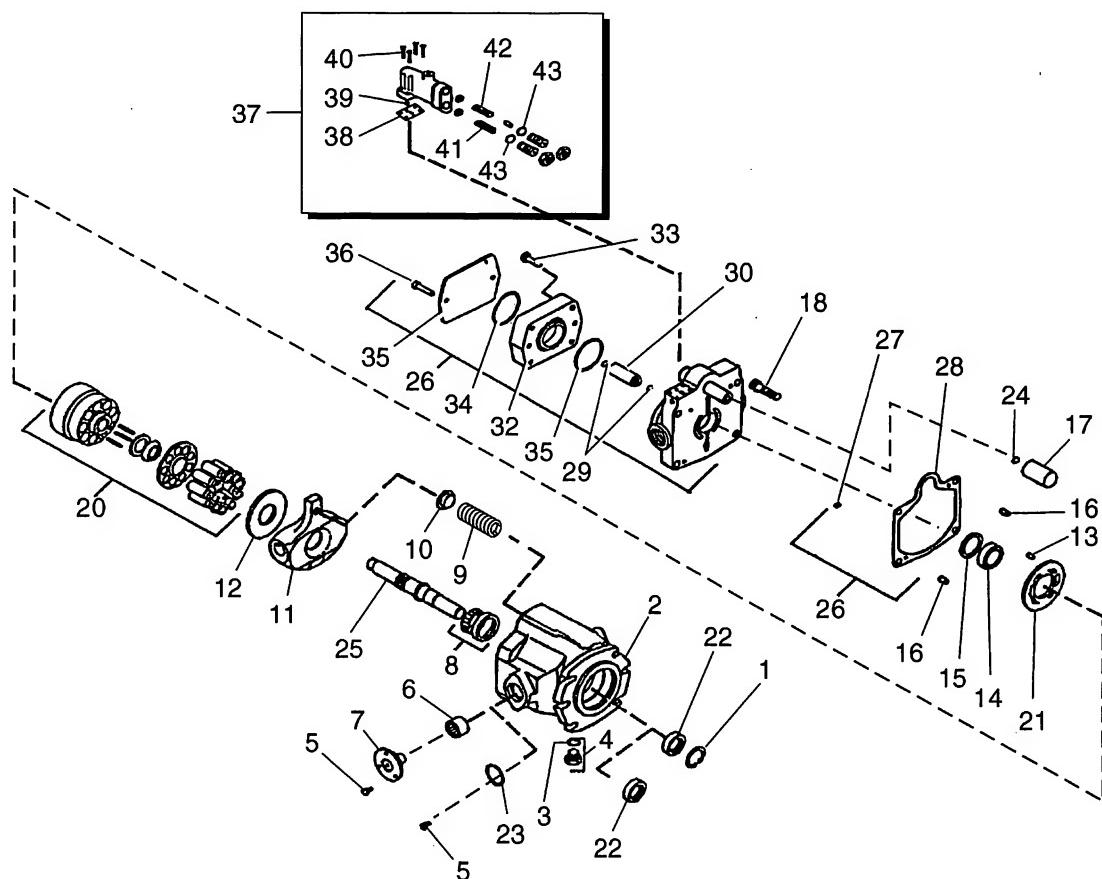


11-6004-1122.fm
05/00

FILTER ASSEMBLY, HYDRAULIC TANK

REF	REV	QTY	PART NO	DESCRIPTION
				FILTER ASSEMBLY, HYDRAULIC TANK
* 1	A	1	9990000388	. FILTER ASSEMBLY
2		1	E0805515AC	. COVER O-RING
3		1	9990000989	. FILTER KIT
4		1	E0805515AG	. FILTER, AIR
5		1	E0805515AD	. MAGNET
6		1	E0805515AF	. U-GASKET
7				NOT SOLD SEPARATELY
8		1	E0805515AE	. RING, PROFILE
9		1	E0805515AH	. BREATHER ASSEMBLY, AIR
10		1	E0805515AJ	. GAUGE, HYDRAULIC PRESSURE
11		1	E0805515AK	. ADAPTER
12		1	E0805515AL	. PIN
13		1	E0805515AM	. BRIDGE
14		1	E0805515AN	. PLUG NPT 1/8"
15		1	E0805515AP	. HEAD
16		2	E0805515AQ	. BUSHING
17		1	E0805515AR	. GASKET, TANK
18		1	E0805515AS	. GUIDE, AIR
19		1	E0805515AB	. COVER
<i>* Indicates item not shown on illustration</i>				

PUMP, HYDRAULIC VARIABLE DISPLACEMENT L38



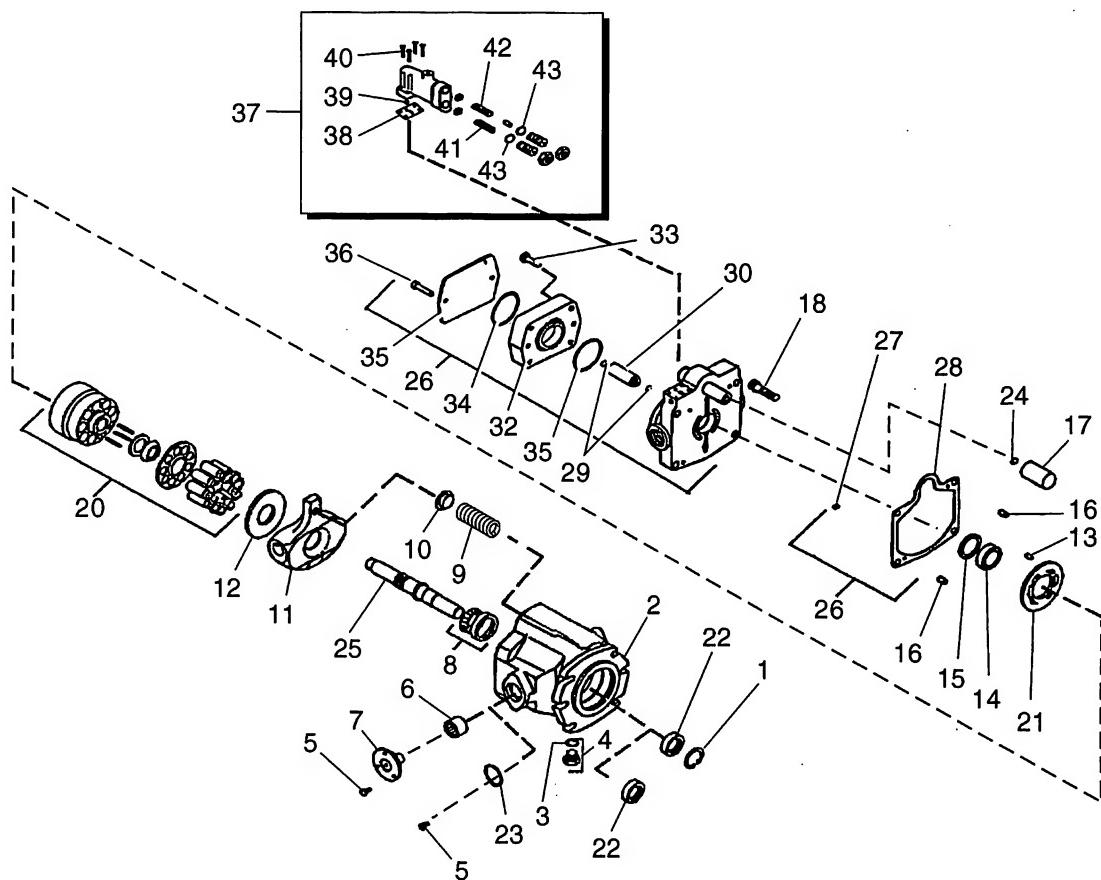
11-2021-1122.fm
05/00

PUMP, HYDRAULIC VARIABLE DISPLACEMENT L38

REF	REV	QTY	PART NO	DESCRIPTION
				PUMP, HYDRAULIC VARIABLE DISPLACEMENT L38
				.L38 OPEN CIRCUIT PUMP - COMMON PARTS
1	1	1	C0720501BD	..RING, RETAINING
2	1	1	F0720501AB	.HOUSING
3	1	1	F0720501AC	.O-RING
4	1	1	F0720501AD	.PLUG
5	6	1	C0720501AV	..SOCKET, HEAD BOLT
6	2	1	C0720501AY	..BEARING, JOURNAL
7	2	1	C0720501AW	..TRUNION
8	1	1	C0720501ZB	..BEARING, FRONT
9	1	1	F0720501AE	..SPRING
10	1	1	F0720501AF	..SPRING, RETAINER
11	1	1	F0720501AG	..PLATE, SWASH
12	1	1	F0720501AH	..PLATE, THRUST
13	1	1	C0720501AG	.PIN
14	1	1	F0720501AJ	..BEARING, KIT REAR
15	AR	1	F0720501AK	..SHIM, KIT
16	2	1	C0720501AF	.PIN
17	1	1	F0720501AL	..CONTROL, CYLINDER
18	4	1	C0720501AC	..BOLT, SOCKET HEAD
* 19	1	1	F0720501ZB	..SEAL, OVERHAUL (VITON) KIT
				.L-38 OPEN CIRCUIT PUMP - ROTATING GROUP
20	1	1	F0720501ZA	..CYLINDER, BLOCK KIT (NON K)
21	1	1	F0720501AM	..VALVE, PLATE (NON K)
				.L-38 OPEN CIRCUIT PUMP - SEALS GROUP
22	1	1	C0720501BC	..LIP, SEAL
23	2	1	C0720501AX	..O-RING
24	1	1	C0720501AK	..O-RING - L38 SHAFT GROUP
				.L-38 OPEN CIRCUIT PUMP - SHAFT GROUP
25	1	1	F0720501AN	..SPLINE, 13 TOOTH W/9TOOTH AUX DRIVE
				.L-38 OPEN CIRCUIT PUMP - END CAP GROUP
26	1	1	F0720501AP	..CAP, END LH W/AUX "A" PAD
27	1	1	F0720501AQ	..PLUG
28	1	1	F0720501AR	..GASKET
29	2	1	F0720501AS	..RING, RETAINING
30	1	1	F0720501AT	..COUPLING
* 31	1	1	F0720501AU	..O-RING
32	1	1	F0720501AV	..FLANGE
33	4	1	F0720501AW	..BOLT, SOCKET HEAD
34	1	1	F0720501AX	..O-RING
35	1	1	F0720501AY	..COVER, FLANGE

* Indicates item not shown on illustration

PUMP, HYDRAULIC VARIABLE DISPLACEMENT L38



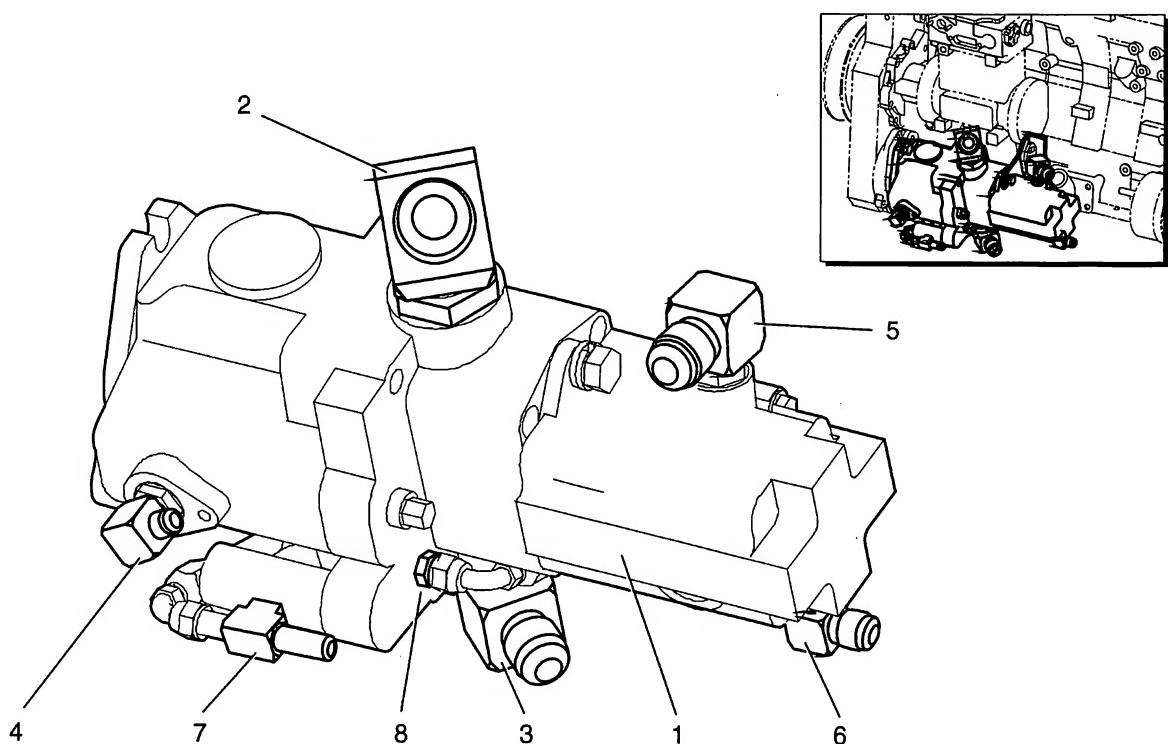
11-2021-1122.fm
05/00

PUMP, HYDRAULIC VARIABLE DISPLACEMENT L38

REF	REV	QTY	PART NO	DESCRIPTION
				L-38 OPEN CIRCUIT PUMP - CONTROL GROUP
36		2	F0720501AZ	..BOLT, HEX HEAD
37			C0720501CC	..KIT CONTROL (3000/200 PSI)
38		1	C0720501BH	..GASKET,,
39		1	C0720501BF	..O-RING
40		4	9990000600	..SCREW, SOCKET HEAD
41		1	F0720501BA	..SPRING, PC (3000PSI)
42		1	F0720501BC	..SPRING, FC (200PSI)
43		2	F0720501BD	..O-RING

* Indicates item not shown on illustration

PUMP, HYDRAULIC TANDEM FITTING

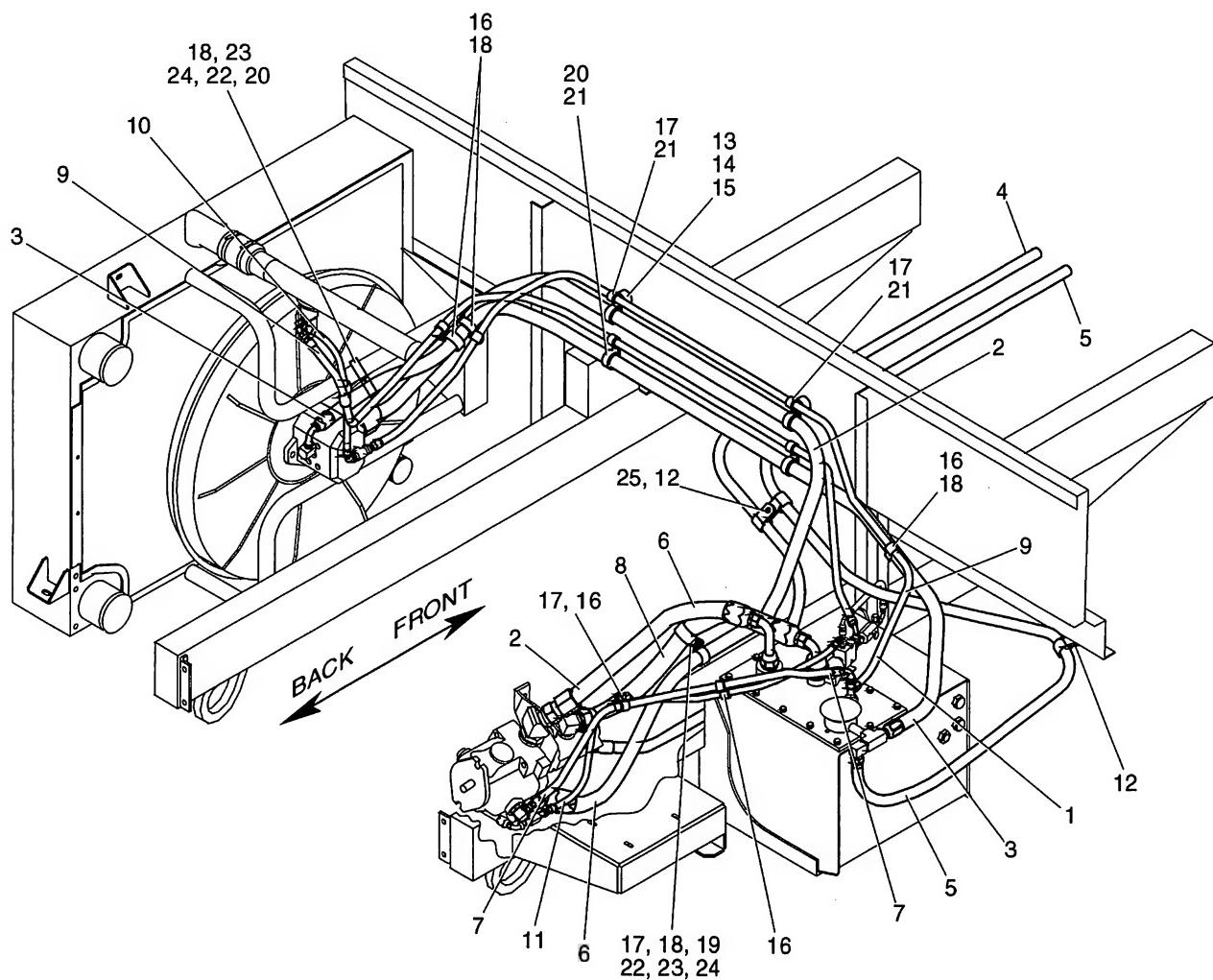


11-2026.fm
05/00

PUMP, HYDRAULIC TANDEM FITTING

REF	REV	QTY	PART NO	DESCRIPTION
	B	1	050720509	PUMP, HYDRAULIC TANDEM FITTING
1		1	See page 11-7	PUMP, HYDRAULIC L38 280G
* 1A		1	A0720534AA	PUMP, GEAR FIXED DISPLACEMENT (SEALED UNIT)
2		1	BS-6137137	ELBOW, 45°
3		1	BS-6136123	ELBOW, SUCTION 90° L-38 PUMP
4		1	BS-6136140	ELBOW, DRAIN 90°
5		1	BS-6136152	ELBOW, SUCTION P/S PUMP- 90°
6		1	BS-6136150	ELBOW, PRESSURE P/S PUMP 90°
7		1	BS-6003901	TEE, SPECIAL BUILT-IN ORIFICE SAE 1/4"
8		1	BS-6139103	CONNECTOR, O-RING #4
* 9		2	BS-4181458	BOLT, MM M10X1.5X25.0 G8.8
* 10		2	BS-4525007	WASHER, LOCK 10MM
* 11		2	BS-4526007	WASHER, FLAT (10MM) PL GR.
* 12		2	060720008	SCREW, FLGHXHD M12X1.75X35
* 13		1	050722016	BRACKET, TANDEM PUMP
<i>* Indicates item not shown on illustration</i>				

ROUTING, HYDRAULIC ENGINE AND TRANSMISSION



11-1041-1154A.fm
04/01

ROUTING, HYDRAULIC ENGINE AND TRANSMISSION

REF	REV	QTY	PART NO	DESCRIPTION
				ROUTING, HYDRAULIC ENGINE AND TRANSMISSION
1		1	050906536	HOSE ASSEMBLY, FAN MOTOR DRAIN LINE
2		1	050912543	HOSE ASSEMBLY, FAN MOTOR PRESSURE LINE
3		1	050916544	HOSE ASSEMBLY, FAN MOTOR RETURN LINE
4		1	050908545	HOSE ASSEMBLY, POWER STEERING PRESSURE LINE
5		1	050910559	HOSE ASSEMBLY, POWER STEERING RETURN LINE
6		1	050920540	HOSE ASSEMBLY, HYDRAULIC SUCTION LINE
7		1	050906521	HOSE ASSEMBLY, HYDRAULIC DRAIN LINE
8		1	050916526	HOSE ASSEMBLY, POWER STEERING SUCTION
9		1	050904577	HOSE ASSEMBLY, SOLENOID TO THERMOVALVE
10		1	050906556	HOSE ASSEMBLY, THERMOVALVE TO FAN MOTOR
11		1	050920528	HOSE ASSEMBLY, HYDRAULIC PUMP TO SOLENOID
12		2	BS-5202750	CLAMP, 1.00" DIA HI-TEMP
13		4	050806408	MOUNT, RUBBER/SANDWICH
14		4	BS-4500122	WASHER, FLAT 3/8" C/Z PL
15		4	BS-4202306	NUT, NYLOCK 3/8" - 16 NC
16		7	BS-5202722	CLAMP, 0.67" DIA HI-TEMP
17		2	BS-5202752	CLAMP, 1.25" DIA HI-TEMP
18		6	BS-5202711	CLAMP, 1.50" DIA HI-TEMP
19		1	BS-5202754	CLAMP, 1.75" DIA HI-TEMP
20		3	BS-5202728	CLAMP, 1.25" DIA HI-TEMP
21		4	BS-5202755	CLAMP, 0.75" DIA HI-TEMP
22		8	BS-4121114	SCREW, HEX HEAD 1/4"-20 NC
23		18	BS-4500120	WASHER, FLAT 1/4" CZPL
24		9	BS-4202304	NUT NYLOCK 1/4"-20 NC ZPL
25		1	BS-5202748	CLAMP, 0.75" DIA HIOTEMP
* 26		1	011234003	CLAMP, DOUBLE TUBE 3/4"
* 27		2	BS-5202304	CLAMP, RUBBER LINED 1-1/4"
* 28		1	BS-5202309	CLAMP, RUBBER LINED 1-3/8"

* Indicates item not shown on illustration

HYDRAULIC SYSTEM

12.

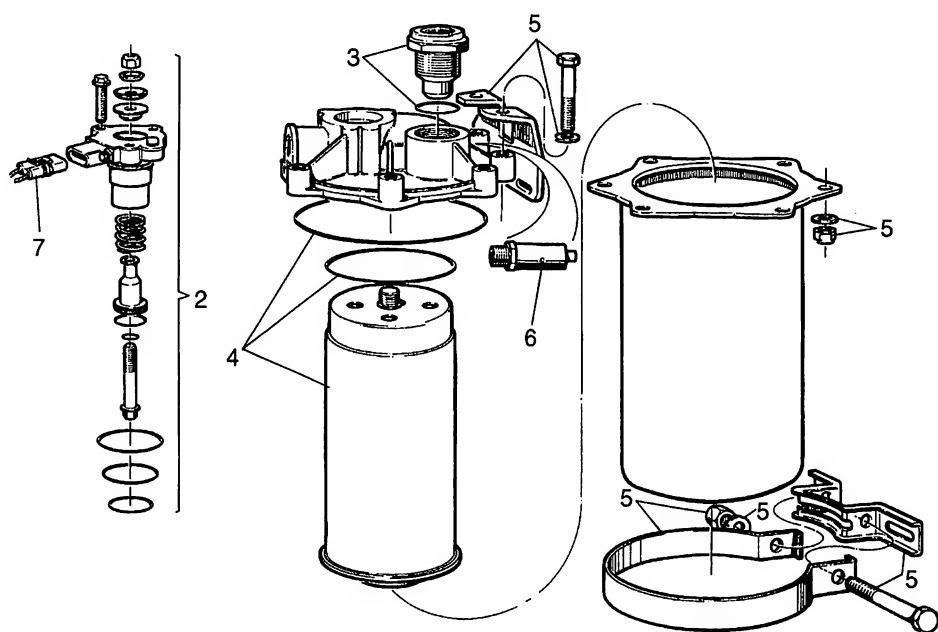
Air System

Orion Bus Industries



Section 12: **AIR SYSTEM**

DRYER, AIR MODEL AD9



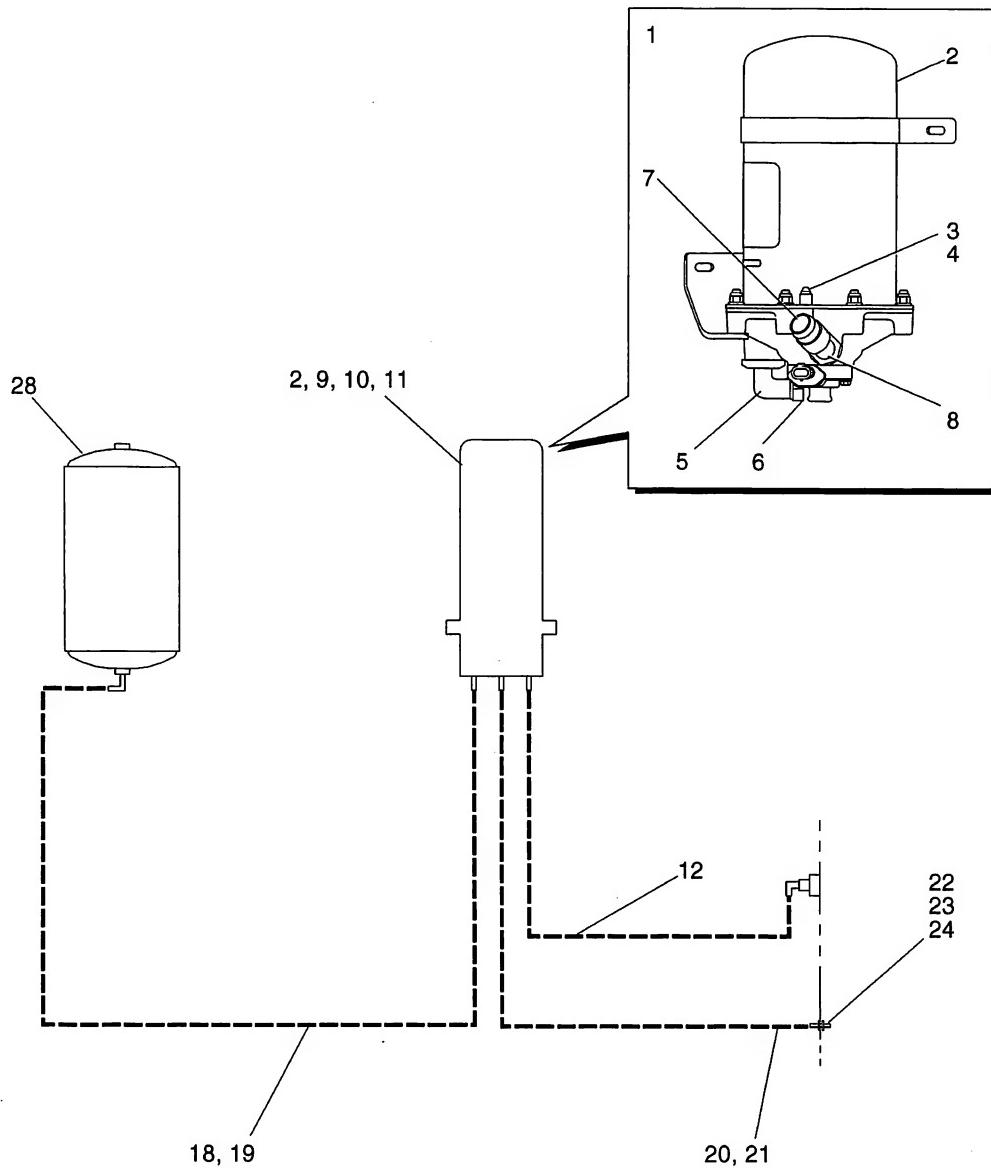
12-1503-1122.fm
05/00

DRYER, AIR MODEL AD9

REF	REV	QTY	PART NO	DESCRIPTION
				DRYER, AIR MODEL AD9
* 1		1	011211531	AIR DRYER 24V
2		1	A1211531AB	.HOUSING ASSEMBLY, PURGE VALVE W/HEAT 24V
3		1	A1211531AD	.VALVE KIT, MAINTENANCE CHECK
4		1	A1211531AE	.CARTRIDGE, DESICCANT (NEW) KIT
* 4A		1	A1211531AH	.DESICCANT CARTRIDGE (REMANUFACTURED) KIT
5		1	A1211531AF	.BRACKET KIT MOUNTING
6		1	A1211524AF	.VALVE, SAFETY
7		1	A1211531AG	.HARNESS, WIRE AND CONNECTOR
* 8		1	A1211531ZA	.HOUSING KIT, MAINTENANCE PURGE VALVE
* 9		1	A1211531AJ	.COVER, ASSEMBLY END 24 VOLT

* Indicates item not shown on illustration

AIR DRYER INSTALLATION



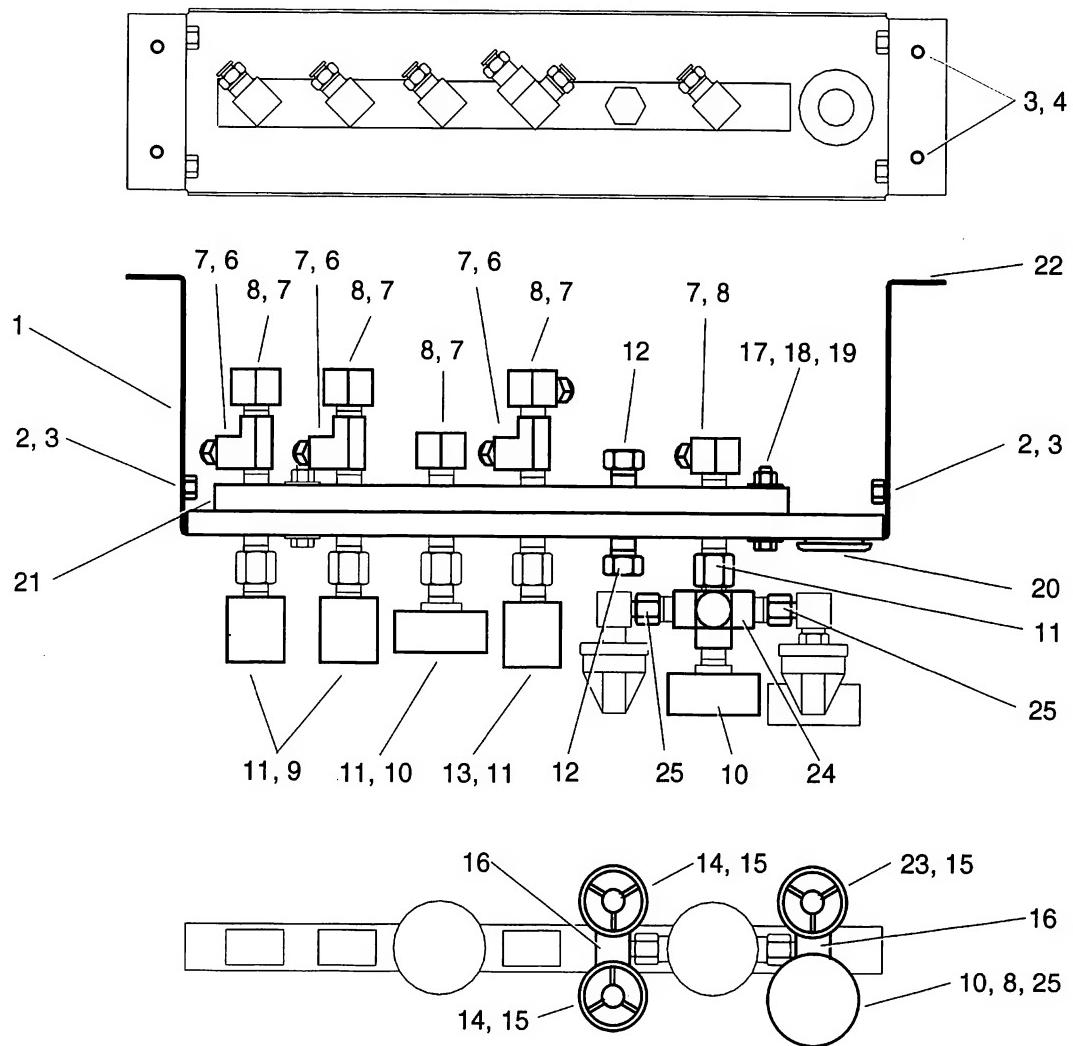
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05/00

AIR DRYER INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
AIR DRYER INSTALLATION				
* 1		1	051211521	AIR DRYER ASSEMBLY
2		1	See page 12-3	AIR DRYER AD9 24V
3		1	BS-6000462	ELBOW, 90° 1/4M NPT - 1/4" FNPT
4		1	BS-6121604	CONNECTOR, 1/4" NYLON - 1/4" M NPT
5		1	BS-6000665	ELBOW, 45° 3/4" M NPT - 3/4" F NPT
6		1	BS-6115121	ELBOW, 90° 3/4M NYLON - 3/4" NPT
7		1	BS-6115516	ELBOW, 90° 3/4M COPPER - 3/4" M NPT
8		1	051211522	FIREWALL COUPLING ASSEMBLY
9		8	BS-4506103	WASHER, FLAT 3/8"
10		4	BS-4121157	SCREW, HX HD 3/8" UNC 1-1/4"
11		4	BS-4202306	NUT, NYLON INSERT
12		1	051211001	TUBE, COPPER AIR DRYER
* 13		4	BS-5202301	CLAMP, RUBBER LINED 5/8"
* 14		3	BS-5202303	CLAMP, RUBBER LINED 1"
* 15		3	BS-4202304	NUT, NYLON INSERT 1/4" UNC
* 16		6	BS-4500120	WASHER, FLAT 1/4"
* 17		3	BS-4121116	SCREW, HX HD 1/4" UNC X 1"
18		AR	BS-2612132	TUBE, NYLON 3/4" O/D GREEN
19		AR	BS-5003106	LOOM, 3/4" ID
20		AR	BS-2611124	TUBE, NYLON 1/4" O/D GREEN
21		AR	BS-5003101	LOOM, 1/4" ID
22		1	BS-6002902	COUPLING, BULKHEAD 1/4" F NPT
23		1	BS-4535112	WASHER, FLAT INT TOOTH 3/4"
24		1	BS-6121604	CONNECTOR, 1/4" NYLON - 1/4" M NPT
* 25		4	BS-5300509	TIE, WRAP 7-3/4"
* 26		1	BS-4500122	WASHER, FLAT 3/8"
* 27		1	BS-4202306	NUT, NYLON INSERT
28		1	051213500	TANK, SUPPLY

* Indicates item not shown on illustration

RAIL, AIR INSTALLATION

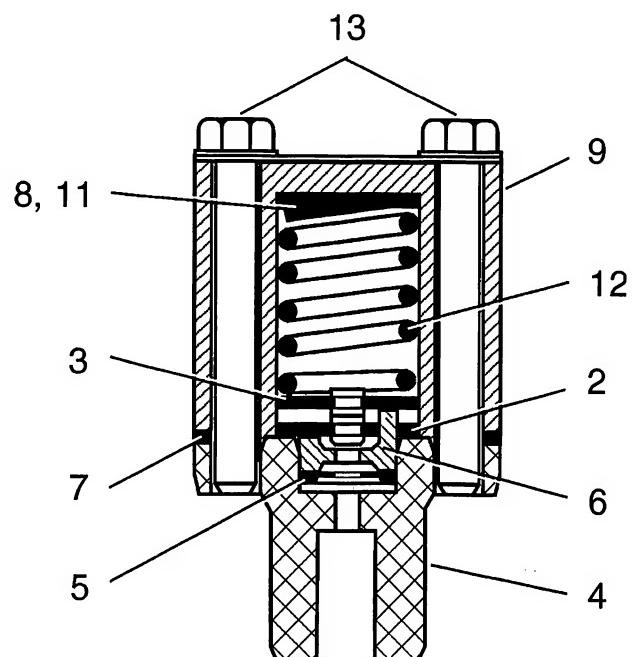
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02/00

RAIL, AIR INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
	F		SK2200-0002	RAIL, AIR INSTALLATION
	NR		2210-0022	AIR RAIL INSTALLATION
1		1	051220009	COVER, AIR RAIL
2		8	BS-4121114	SCREW HX HD 1/4"- 20NC X 3/4"
3		12	BS-4500120	WASHER FLAT 1/4"
4		4	BS-4202304	NUT-NYLOCK 1/4-20NC ZPL G
* 5		1	051220567	AIR RAIL, E10P,3 STG RTD
6		3	BS-6000962	TEE-STREET-PIPE 1/4 NPT
7		8	BS-6121604	TUBE TO MALE NPT 1/4 X
8		7	BS-6000462	ELBOW 90° -STREET-PIPE 1/4
9		2	See page 12-9	SWITCH, PRESSURE 70 PSI NC
10		3	See page 12-11	SWITCH, PRESSURE 4 PSI
11		6	BS-6002802	ADAPTER, 1/4" NPT - 1/4" NPT
12		2	BS-6000262	PLUG, PIPE HEX HD 1/4P
13		1	See page 12-9	SWITCH, PRESSURE 50 PSI
14		2	051029400	SWITCH, PRESSURE 6 PSI
15		3	BS-6000461	ELBOW 90° - 1/8" NPT
16		2	BS-6000701	TEE 1/8" NPT BRASS
17		2	BS-4121119	SCREW 1/4" - 20 NC X 1.75
18		4	BS-4500120	WASHER-FLAT 1/4" C/ZPL
19		2	BS-4202304	NUT-NYLOCK 1/4-20NC ZPL G
20		1	BS-2614008	GROMMET-RUBBER 7/8 ID X 1-1/4 OD
21		1	011220020	AIR RAIL
22		1	051220401	BRACKET, AIR RAIL MOUNTING
23		1	061220003	RETARDER, PRESSURE SWITCH 2 PSI
24		1	BS-6000771	ADAPTER, STREET CROSS 1/4" NPT
25		3	BS-6002803	ADAPTER, BR PIPE 1/4" X 1/8"

* Indicates item not shown on illustration

SWITCH, AIR PRESSURE INDICATOR



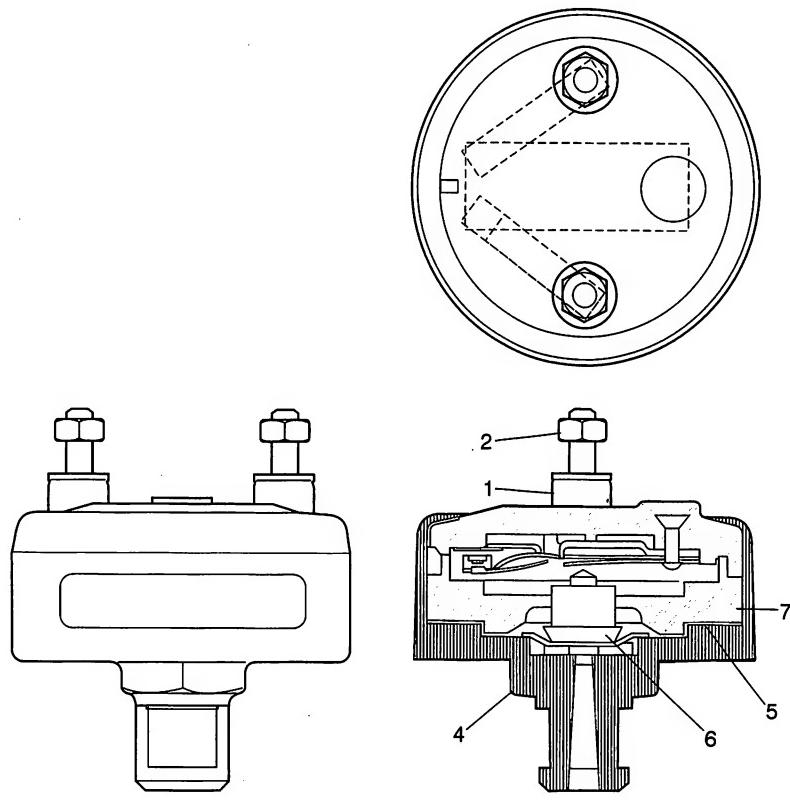
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05/99

SWITCH, AIR PRESSURE INDICATOR

REF	REV	QTY	PART NO	DESCRIPTION
				SWITCH, AIR PRESSURE INDICATOR
* 1		1	011220009	SWITCH, PRESSURE (70 PSI)
* 1A		1	011220010	SWITCH, PRESSURE (50 PSI)
2		1	A1220009AB	.PLATE, CONTACT COMPLETE
3		1	A1220009AC	.DISC, CONTACT COMPLETE
4		1	A1220009AD	.BODY
5		1	A1220009AE	.O-RING, DIAPHRAGM
6		1	A1220009AF	.PISTON
7		1	A1220009AG	.GASKET
8		3	A1220009AH	.SHIM
9		1	A1220009AJ	.COVER
* 10		2	A1220009AK	.SCREW, #8 MACHINED
11		3	A1220009AL	.SHIM
12		1	A1220009AM	.SPRING, PRESSURE 70 PSI
* 12A		1	A1220009AN	.SPRING, PRESSURE 50 PSI
13		2	A1220009AP	.SCREW, # 10 MACHINED

* Indicates item not shown on illustration

SWITCH, PRESSURE



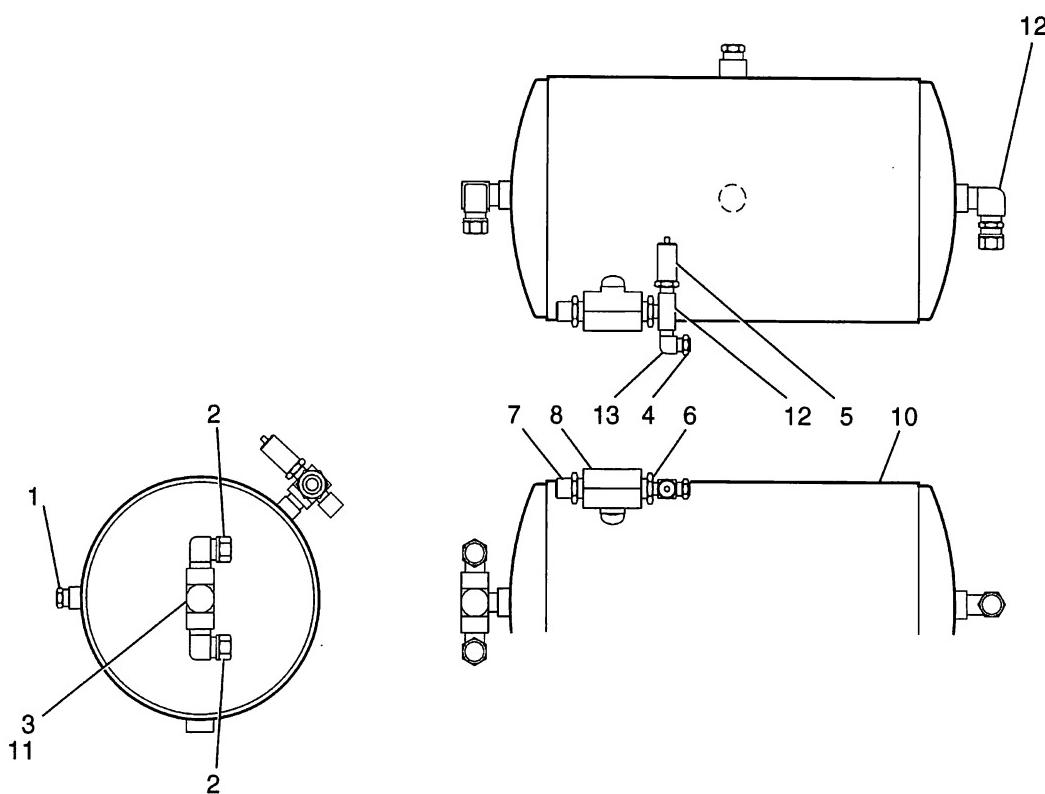
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05/00

SWITCH, PRESSURE

REF	REV	QTY	PART NO	DESCRIPTION
			011220008	SWITCH, PRESSURE
1		2	A1220008AB	.WASHER
2		2	A1220008AC	.NUT, BRASS # 8
* 3		1	A1220008AD	.COVER, COMPLETE
4		1	A1220008AE	.BODY
5		1	A1220008AF	.DIAPHRAGM
6		1	A1220008AG	.PLUNGER
7		1	A1220008AH	.DIAPHRAGM, CLAMP

* Indicates item not shown on illustration

TANK, REAR SUPPLY



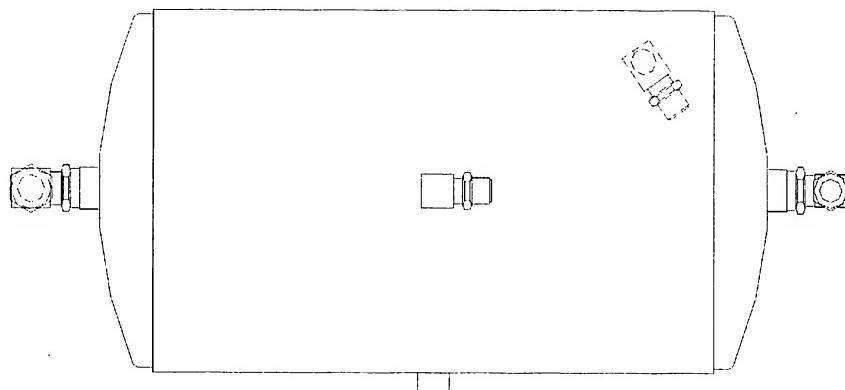
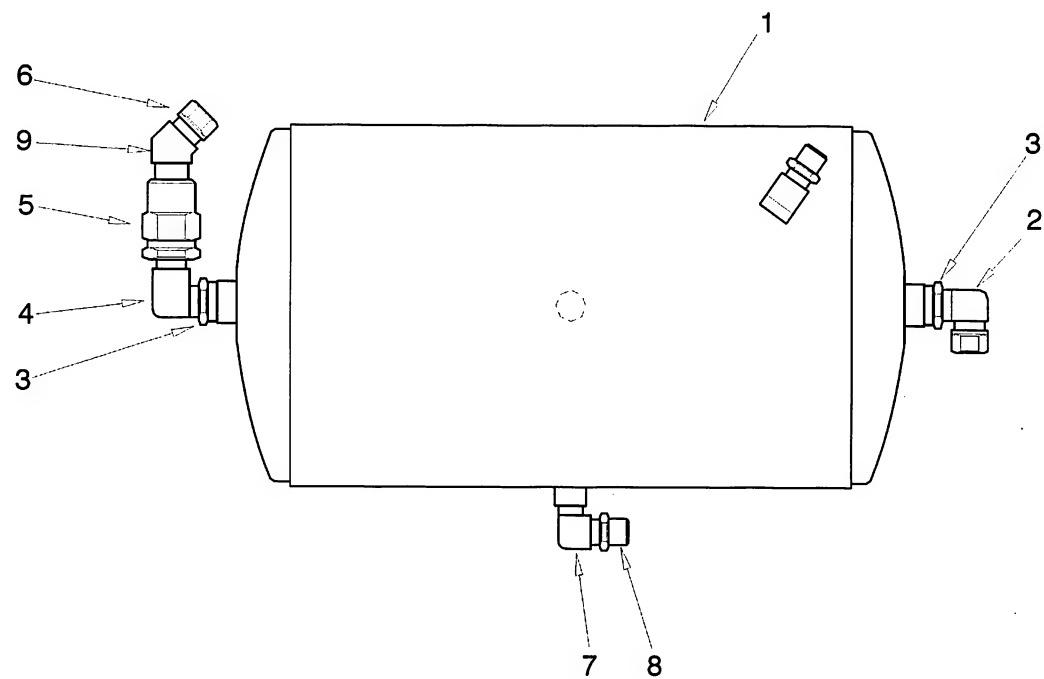
12-4525
02/00

TANK, REAR SUPPLY

REF	REV	QTY	PART NO	DESCRIPTION
	C	1	051214557	TANK, REAR SUPPLY
1		2	BS-6000263	PLUG, BR PIPE HX HD 3/8" NPT
2		1	BS-6115115	ELBOW, 90° 5/8" NYLONON
3		1	BS-6000070	BUSHING, BR PIPE 3/4" X 1/2"
4		1	BS-6121604	TUBE TO MALE NPT 1/4"
5		1	011211007	VALVE, SAFETY 150 PSI
6		1	BS-6000065	PIPE, BUSHING BR PIPE 1/2"-1/4"
7		1	BS-6121611	TUBE TO MALE NPT 1/2" NYLONON - 1/2" M NPT
8		1	BS-6000764	MALE BRANCH TEE 1/2"
* 9		1	BS-6115121	ELBOW, 90° M AB NYLON 3/4"-3/4" M NPT
10		1	051213500	TANK, AIR
11		1	BS-6000764	MALE BRANCH TEE
12		1	BS-6000702	BR PIPE MALE BRANCH TEE 1/4" P
13		1	BS-6000462	ELBOW, 90°-STREET-PIPE 1/4" NPT
* 14		1	021262506	VALVE, HEATED AUTO DRAIN 24 VOLT
* 15		1	BS-6000065	BUSHING, PIPE
* 16		1	BS-6002226	NIPPLE, HEXAGONAL BRASS 3/8"
* 17		1	BS-6109114	COCK, DRAIN EXTERIOR 1/2"

* Indicates item not shown on illustration

TANK, REAR BRAKE # 1



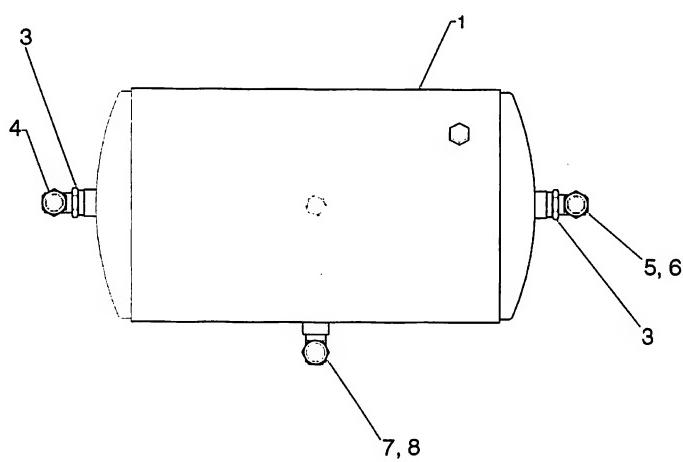
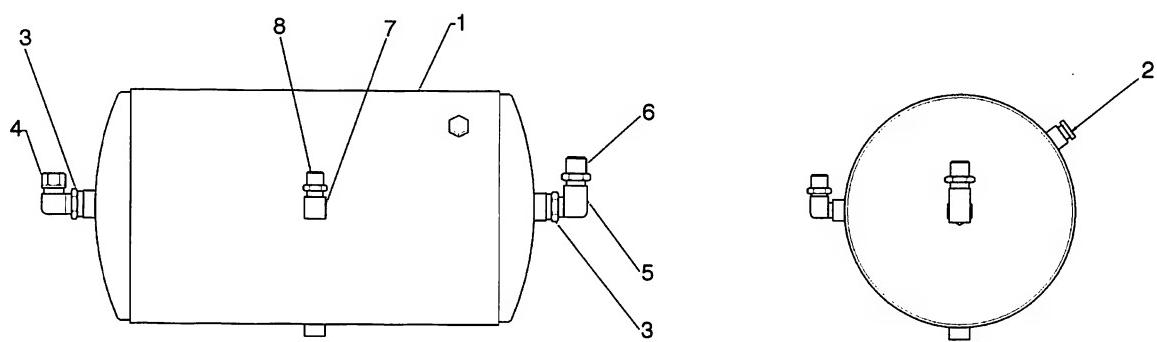
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01/00

TANK, REAR BRAKE # 1

REF	REV	QTY	PART NO	DESCRIPTION
	NR		051214547	TANK, REAR BRAKE # 1
1		1	051213504	TANK, AIR
2		2	BS-6115115	ELBOW, 90°
3		2	BS-6000070	BUSHING, BRASS PIPE 3/4 X 1/2
4		1	BS-6000464	ELBOW, 90° (8-8B)(M.NPT-F.
5		1	051216004	VALVE, CHECK SC-3 1/2 NPT
6		1	BS-6114113	CONNECTOR, MALE AB NYLON
7		1	BS-6000463	ELBOW, 90° 6-6
8		1	BS-6121610	TUBE, TO MALE NPT:1/2-3/
9		1	BS-6000664	ELBOW, 45° ST 1/2"

* Indicates item not shown on illustration

TANK, REAR BRAKE # 2



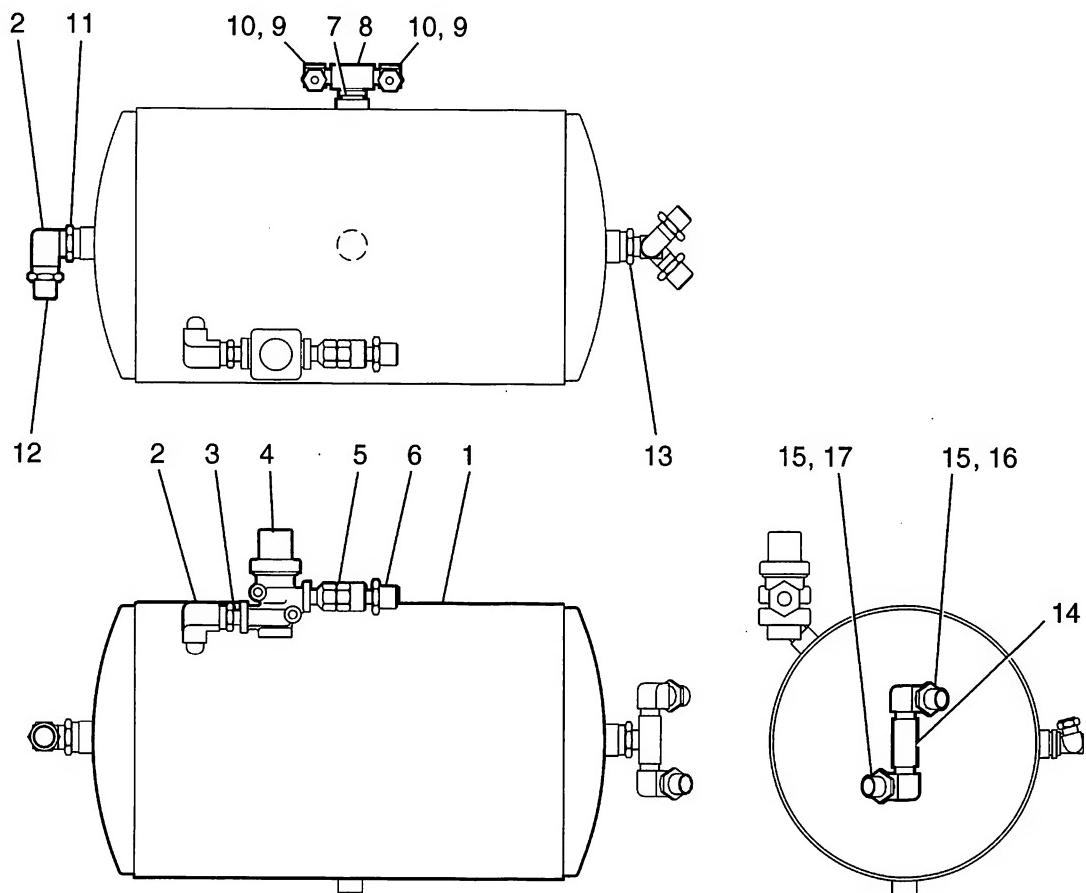
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05/01

TANK, REAR BRAKE # 2

REF	REV	QTY	PART NO	DESCRIPTION
			051214551	TANK, REAR BRAKE # 2
1		1	051213504	TANK, AIR
2		1	BS-6000264	PIPE, PLUG HEX HD 1/2 NPT
3		2	BS-6000070	BUSHING, REDUCING 3/4" NPT
4		1	BS-6115115	ELBOW, 90° 1/2M NPT
5		1	BS-6000464	ELBOW, 90° 1/2M NPT
6		1	BS-6121611	CONNECTOR, 1/2" NYLON 1/2" M
7		1	BS-6000463	ELBOW, 90° 3/8" M NPT
8		1	BS-6121607	CONNECTOR, 3/8" NYLON

* Indicates item not shown on illustration

TANK, AIR REAR ACCESSORIES

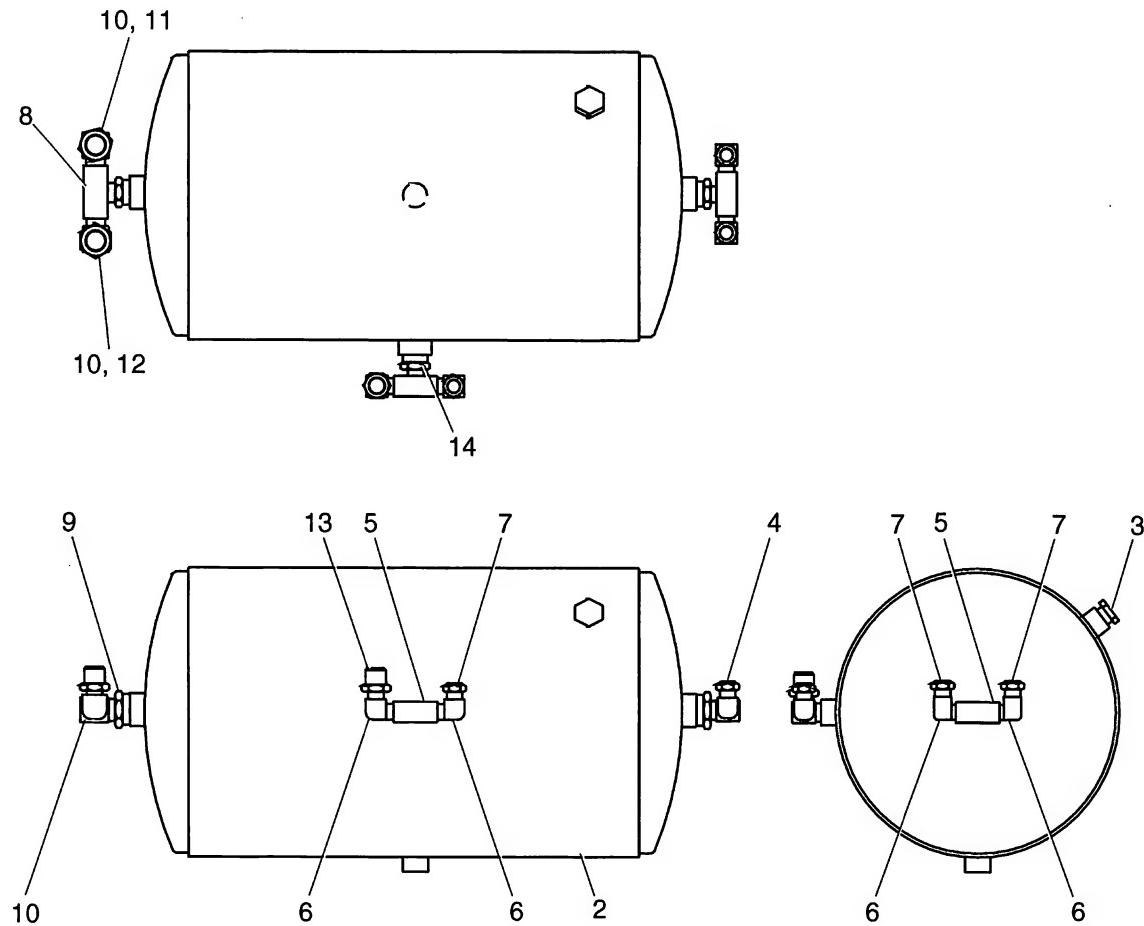


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TANK, AIR REAR ACCESSORIES

REF	REV	QTY	PART NO	DESCRIPTION
		1	051214560	TANK, AIR REAR ACCESSORIES
1		1	051213500	TANK, AIR
2		2	BS-6000464	ELBOW 90°
3		1	BS-6002208	NIPPLE - ST PIPE HX 1/2 X 1/4"
4		1	See page 12-55	VALVE, PRESSURE PROTECTION PR4 70 PSI
5		1	See page 12-73	-FILTER, PRESSURE PROTECTION VALVE
6		1	BS-6121609	TUBE, 1/2" TO 1/4" MALE
7		1	BS-6000063	BUSHING, BR PIPE 3/8" NPT
8		1	BS-6000702	PIPE, MALE BRANCH TEE 1/4" NPT
9		2	BS-6000462	ELBOW, 90° - STREET PIPE 1/4"
10		2	BS-6121604	TUBE, MALE NPT 1/4" X 1/4" MALE NPT
11		1	BS-6000070	BUSHING, PIPE 3/4" X 1/2" NPT
12		1	BS-6121611	TUBE, TO MALE NPT 1/2" NYLON X 1/2" MALE NPT
13		1	BS-6000069	BUSHING, REDUCING BR PIPE 3/4" X 3/8" NPT
14		1	BS-6000703	TEE, MALE BRASS PIPE 3/8" NPT
15		2	BS-6000463	ELBOW, STREET BRASS 3/8" NPT
16		1	BS-6121607	TUBE, TO MALE NPT: 3/8" NYLON - 3/8" MALE NPT
17		1	BS-6121610	TUBE, TO MALE NPT: 1/2 - 3/8" NPT
<i>* Indicates item not shown on illustration</i>				

TANK, AIR FRONT ACCESSORIES



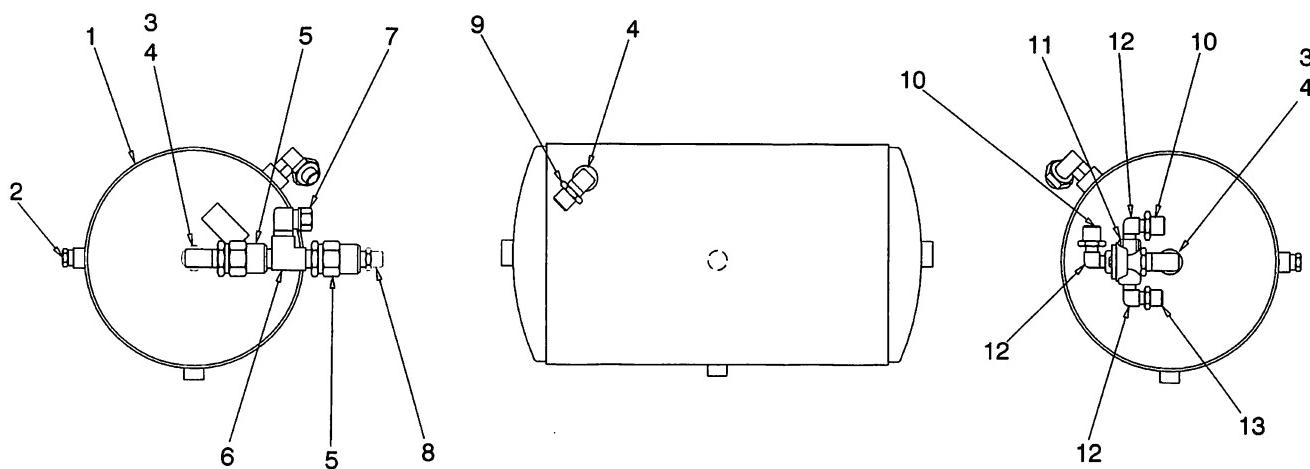
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TANK, AIR FRONT ACCESSORIES

REF	REV	QTY	PART NO	DESCRIPTION
	NR		SK4100-0397	TANK, AIR FRONT ACCESSORIES
* 1		1	051214563	TANK, FRONT ACCESSORIES
2		1	051213500	.TANK, AIR
3		1	BS-6000264	.PIPE, PLUG HEX HD 1/2" P BRASS
4		1	BS-6000065	.PIPE, BUSHING 3200X8X4 BRASS
5		2	BS-6000702	.TEE, PIPE MALE BRANCH TEE 1/4" P BRASS
6		4	BS-6000462	.ELBOW, 90° STREET PIPE 1/4"
7		3	BS-6121604	.CONNECTOR, TUBE TO MALE NPT 1/4" X 1/4"
8		1	BS-6000703	.TEE, MALE PIPE 3/8" P BRASS
9		1	BS-6000069	.BUSHING, PIPE 3/4" X 3/8" P
10		2	BS-6000463	.ELBOW, 90° 6-6
11		1	BS-6121607	.CONNECTOR, TUBE TO MALE NPT: 3/8" 3/8"
12		1	BS-6121610	.CONNECTOR, TUBE TO MALE NPT: 1/2" 3/8"
13		1	BS-6121606	.CONNECTOR, TUBE TO MALE NPT: 3/8" 1/4"
14		1	BS-6000063	.BUSHING PIPE 3/8"P X 1/4" P
* 15		2	011402003	.BRACKET, AIR TANK

* Indicates item not shown on illustration

TANK, AIR FRONT BRAKE



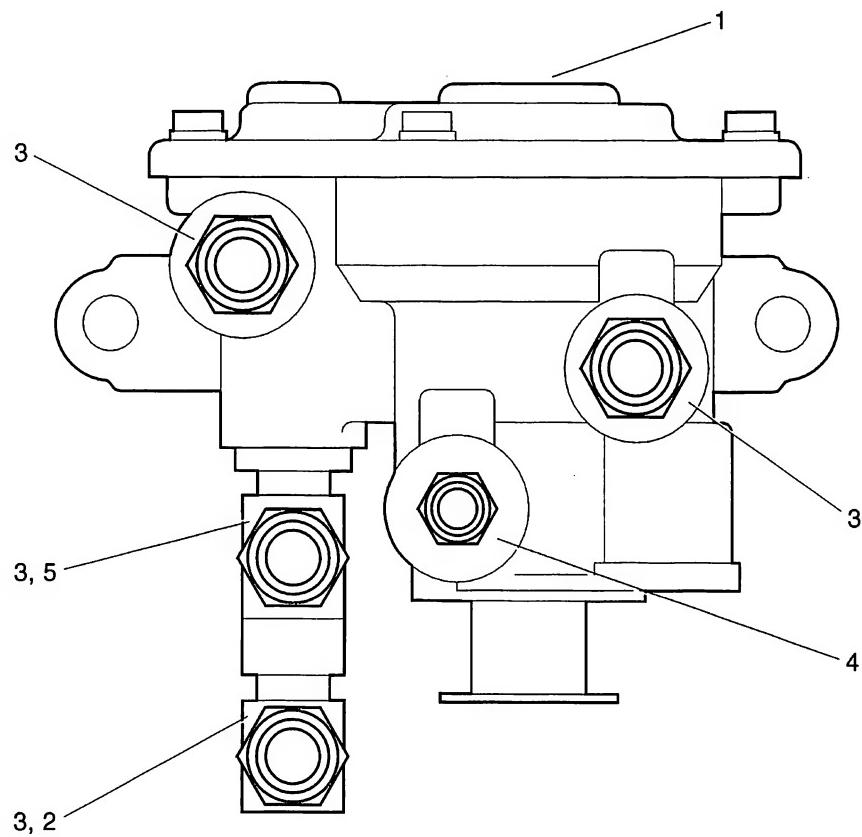
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TANK, AIR FRONT BRAKE

REF	REV	QTY	PART NO	DESCRIPTION
	NR		051214553	TANK, AIR FRONT BRAKE
1		1	051213504	TANK, AIR
2		1	BS-6000263	PLUG-BR PIPE HX HD 3/8P
3		1	BS-6000070	BUSHING BR PIPE 3/4 X 1/2
4		2	BS-6000464	ELBOW 90° (8-8B) M.NPT-F.
5		2	051216004	VALVE, CHECK SC-3 1/2 NPT
6		1	BS-6000964	TEE-STREET 1/2P
7		1	BS-6115115	ELBOW 90° 1469 X 10
8		1	BS-6121608	TUBE TO MALE NPT: 3/8-1
9		1	BS-6121611	TUBE TO MALE NPT: 1/2-1
10		2	BS-6121609	TUBE 1/2 TO 1/4 MALE NP
11		1	011227505	VALVE, CHECK DOUBLE DC4
12		3	BS-6000462	ELBOW, 90°-STREET-PIPE 1/4
13		1	BS-6121606	TUBE TO MALE NPT: 3/8-1

* Indicates item not shown on illustration

VALVE ASSEMBLY, SPRING BRAKE



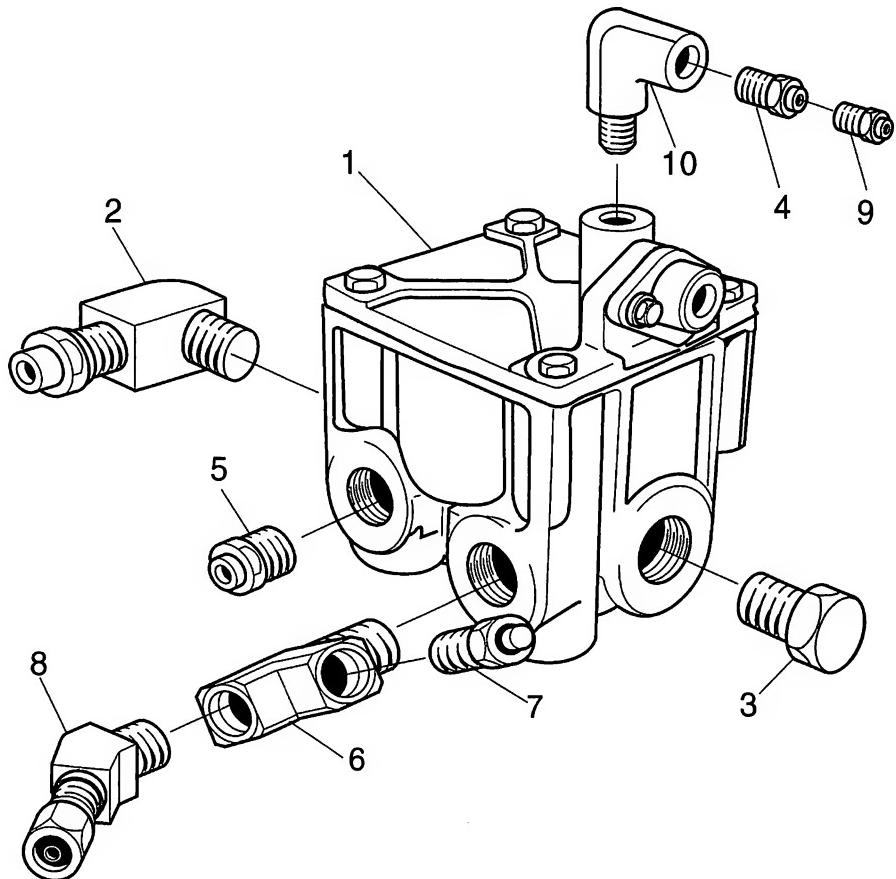
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02/00

VALVE ASSEMBLY, SPRING BRAKE

REF	REV	QTY	PART NO	DESCRIPTION
	NR		051223504	VALVE ASSEMBLY, SPRING BRAKE
1		1	011223503	VALVE, SPRING, BRAKE SR-1
2		1	BS-6000462	ELBOW, 90° STREET PIPE, 1/4"
3		4	BS-6121606	CONNECTOR, NPT 3/8" NYLON 1/4M NPT
4		1	BS-6121604	CONNECTOR, NPT 1/4" NYLON 1/4M NPT
5		1	BS-6000962	TEE, STREET PIPE, 1/4 NPT

* Indicates item not shown on illustration

VALVE ASSEMBLY, RELAY R12 DC



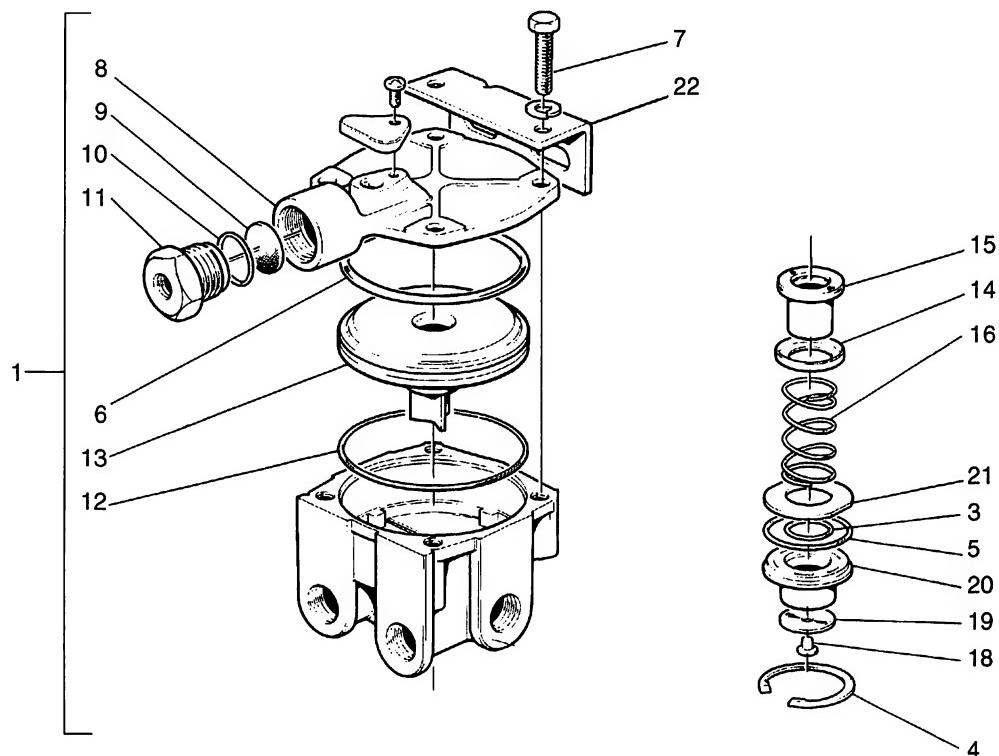
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10/00 Rev 1

VALVE ASSEMBLY, RELAY R12 DC

REF	REV	QTY	PART NO	DESCRIPTION
			051230529	VALVE ASSEMBLY, RELAY R12 DC
1		1	See page 12-47	RELAY VALVE ASSEMBLY
2		1	BS-6115115	ELBOW, 90° 5/8" NYL 1/2 M NPT
3		1	BS-6000464	PLUG, HEX HEAD 1/2" NPT
4		1	BS-6121609	CONNECTOR, 1/2 NYL 1/4M NPT
5		1	BS-6121614	CONNECTOR, 5/8 NYL 1/2M NPT
6		1	BS-6000964	TEE STREET 1/2 NPT
7		1	BS-6121608	CONNECTOR, 3/8" NYL - 1/2M NPT
8		1	BS-6000664	ELBOW, 45° 5/8" NYL - 1/2 M NPT
9		1	BS-6121606	CONNECTOR, 3/8" NYL - 1/4M NPT
10		1	BS-6000462	ELBOW, 90° STREET PIPE 1/4 NPT

* Indicates item not shown on illustration

VALVE ASSEMBLY, SERVICE BRAKE RELAY R14

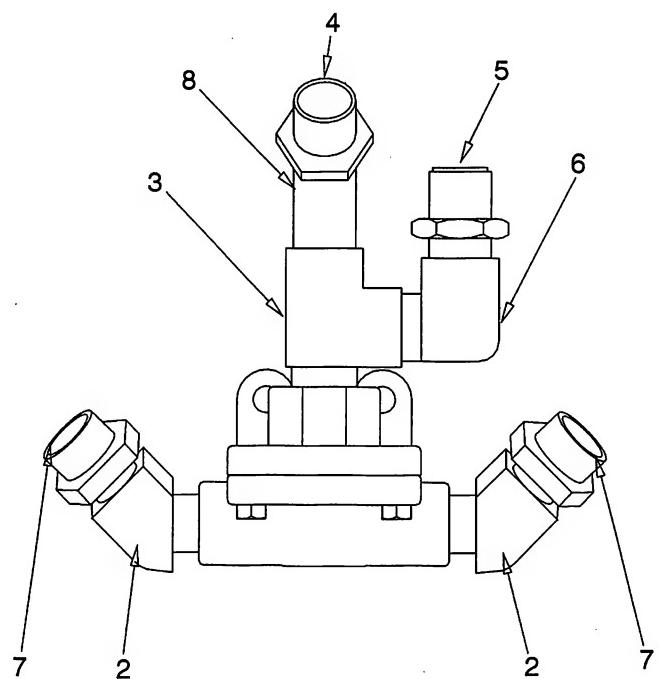
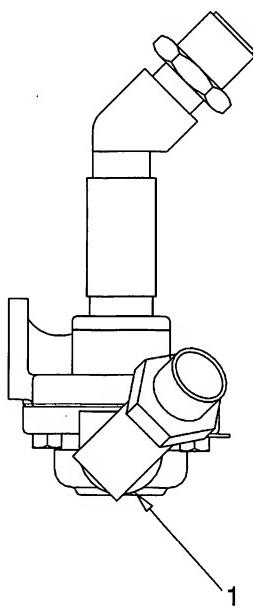


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04/98

PARK
VALVE ASSEMBLY, SERVICE BRAKE RELAY R14

REF	REV	QTY	PART NO	DESCRIPTION
				VALVE ASSEMBLY, SERVICE BRAKE RELAY R14
1		1	051230525	VALVE ASSEMBLY, BRAKE RELAY 4.0 PSI
* 2		1	011230504	RELAY, BRAKE 4.0 PSI
3		1	SEE ITEM # 23	O-RING
4		2	SEE ITEM # 23	RING, RETAINING
5		1	SEE ITEM # 23	O-RING
6		1	SEE ITEM # 23	O-RING
7		4	A1230503AH	SCREW - HEX HD 5/16NC X 11/4
8		1	A1230504AF	COVER, COMPLETE RELAY VALVE
9		1	SEE ITEM # 23	DIAPHRAGM
10		1	SEE ITEM # 23	O-RING
11		1	A1230504AJ	NUT - CAP
12		1	SEE ITEM # 23	O-RING
13		1	A1230504AL	PISTON, RELAY
14		1	SEE ITEM # 23	VALVE, RETAINER
15		1	SEE ITEM # 23	VALVE, INLET AND EXHAUST
16		1	SEE ITEM # 23	SPRING, VALVE
* 17		1	SEE ITEM # 23	COVER, COMPLETE EXHAUST
18		1	SEE ITEM # 23	RIVET
19		1	SEE ITEM # 23	DIAPHRAGM
20		1	SEE ITEM # 23	COVER, EXHAUST
21		1	SEE ITEM # 23	RETAINER, O-RING
22		1	SEE ITEM # 23	BRACKET, MOUNTING
* 23		1	A1230504ZA	MAINTENANCE KIT (ITEMS 3-6,9,10,12,14-21)
<i>* Indicates item not shown on illustration</i>				

VALVE ASSEMBLY, QUICK RELEASE



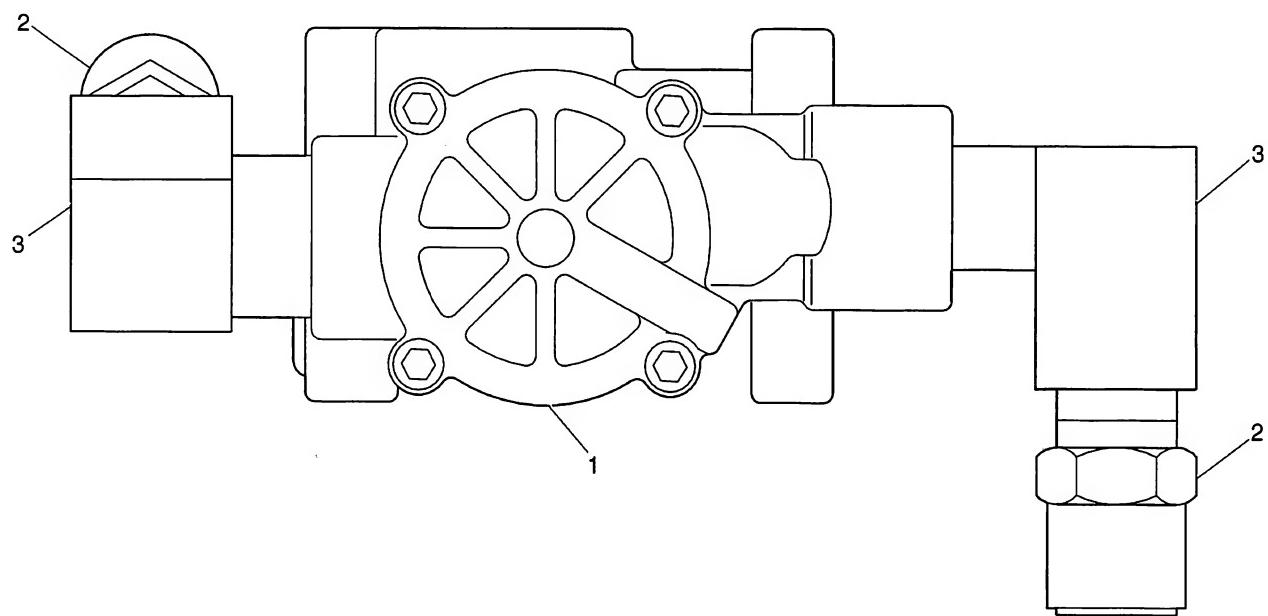
12-2584
03/00

VALVE ASSEMBLY, QUICK RELEASE

REF	REV	QTY	PART NO	DESCRIPTION
			051230530	VALVE ASSEMBLY, QUICK RELEASE
1		1	051230532	VALVE, QUICK RELEASE QR-1
2		2	BS-6000663	ELBOW, 45° 3/8M NPT - 3/8F NPT
3		1	BS-6000964	TEE, STREET 1/2 NPT
4		1	BS-6121608	CONNECTOR, 3/8 NYL - 1/2 NPT
5		1	BS-6121611	CONNECTOR, 1/2 NYL - 1/2 NPT
6		1	BS-6000464	ELBOW, 90° 1/2M NPT - 1/2F NPT
7		2	BS-6121610	CONNECTOR, 1/2M - 3/8M NPT
8		1	BS-6000664	ELBOW, 45° 1/2M NPT - 1/2F NPT

* Indicates item not shown on illustration

VALVE ASSEMBLY, MODULATOR FRONT ABS



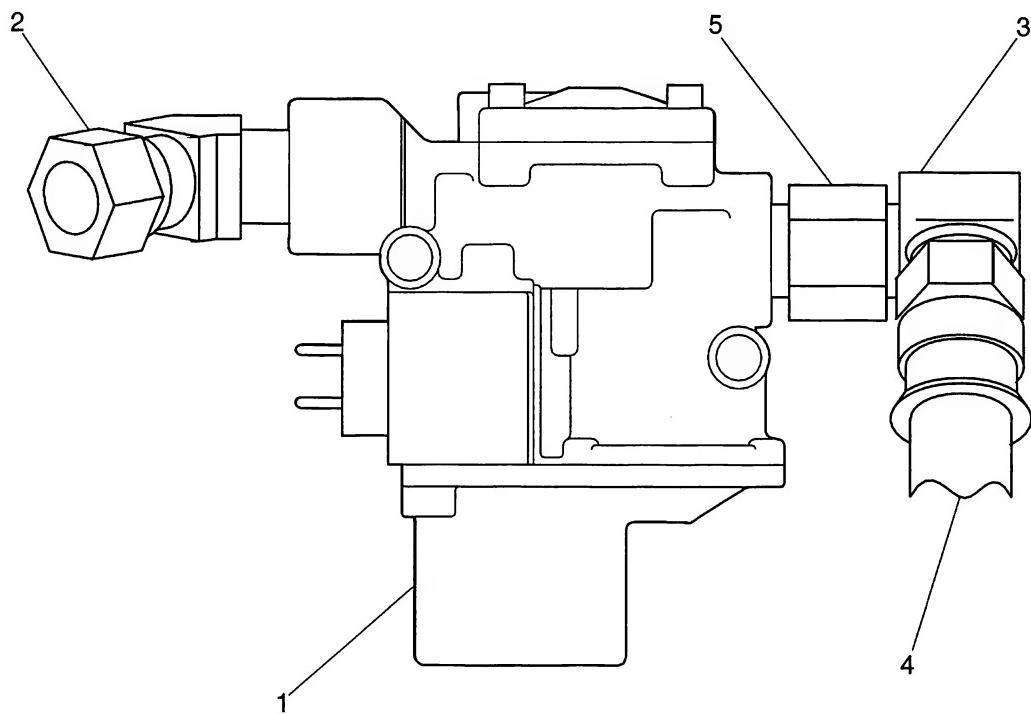
12-2539-1122.fm
04/98

VALVE ASSEMBLY, MODULATOR FRONT ABS

REF	REV	QTY	PART NO	DESCRIPTION
			051221513/051221517	VALVE ASSEMBLY, MODULATOR FRONT ABS
1		4	051231505	VALVE, MODULATOR ABS
2		4	BS-6121611	CONNECTOR 1/2" NYLON-1/2M NPT
3		4	BS-6000464	ELBOW 90° 1/2M-1/2F NPT

* Indicates item not shown on illustration

VALVE ASSEMBLY, MODULATOR REAR ABS



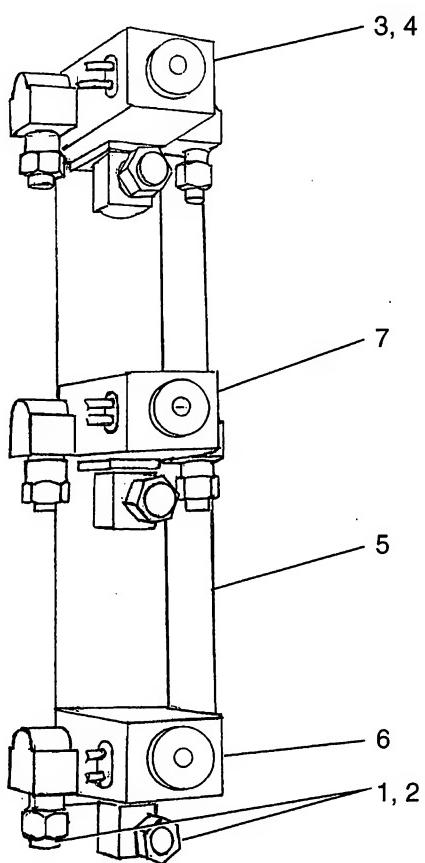
12-6074.fm
02/00

VALVE ASSEMBLY, MODULATOR REAR ABS

REF	REV	QTY	PART NO	DESCRIPTION
			051221519/518	VALVE ASSEMBLY, MODULATOR REAR ABS
1		2	051231505	VALVE, MODULATOR ABS 24V SEALED UNIT
2		2	BS-6119108	ELBOW, 45° 5/8" NYLON-1/2F NPT
3		2	BS-6000464	ELBOW, 90° 1/2M NPT - 1/2 F NPT
4		2	011241504	HOSE ASSEMBLY, BRAKE
5		2	BS-6002807	ADAPTER, 1/2" X 1/2"P

* Indicates item not shown on illustration

VALVE ASSEMBLY, MACHINE 24V



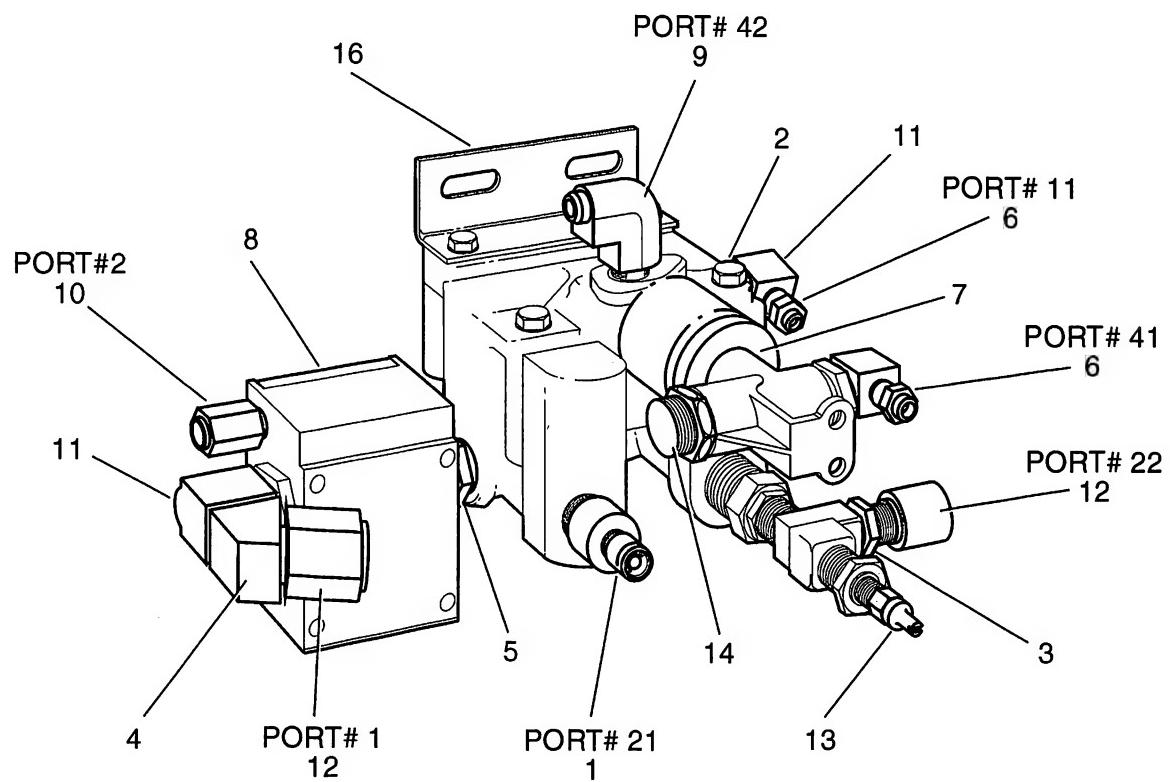
12-2591-1154A.fm
03/01

VALVE ASSEMBLY, MACHINE 24V

REF	REV	QTY	PART NO	DESCRIPTION
			051210520	VALVE ASSEMBLY, MACHINE 24V
1		8	BS-6000462	ELBOW, 90° 1/4M NPT 1/4"F NPT
2		8	BS-6121604	CONNECTOR 1/4" NYLON - 1/4" M NPT
3		6	BS-4530107	WASHER EXTERNAL TOOTH # 10
4		6	BS-4109505	SCREW BINDING HD # 10 UNF X 1/2"
5		1	011210036	BRACKET
6				NOT APPLICABLE
7		3	011210540	VALVE, MACHINE 24V

* Indicates item not shown on illustration

VALVE ASSEMBLY, RELAY R14



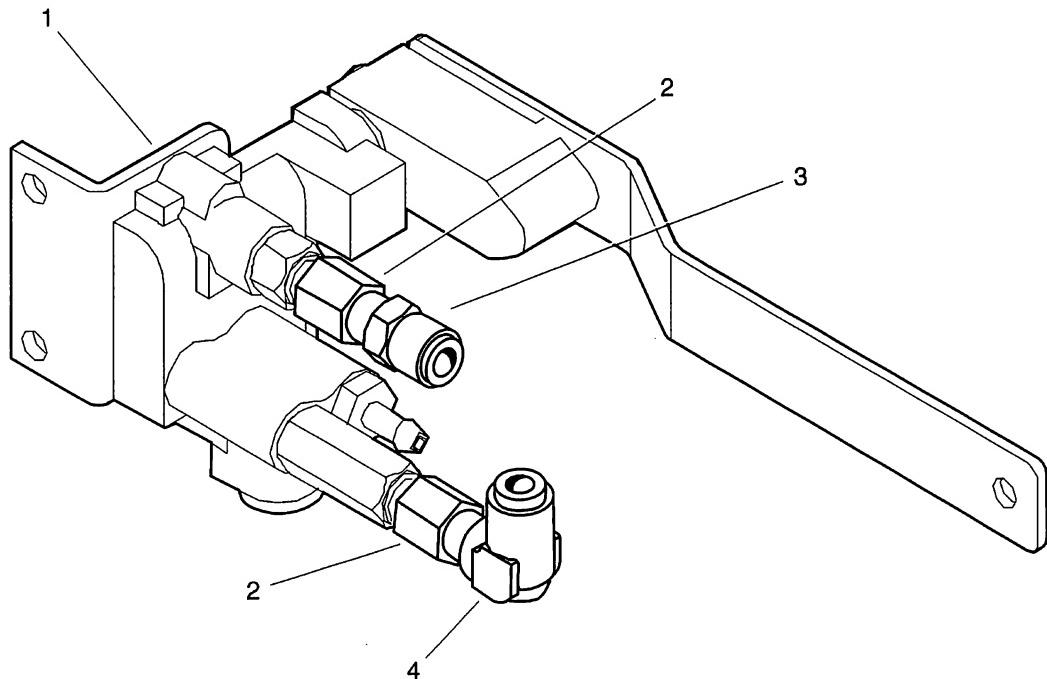
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12/00

VALVE ASSEMBLY, RELAY R14

REF	REV	QTY	PART NO	DESCRIPTION
	NR		051210521	VALVE ASSEMBLY, RELAY R14
1		1	BS-6121608	CONNECTOR, 3/8" NYLON - 1/2" MNPT
2		2	BS-6000065	BUSHING, REDUCING
3		1	BS-6000962	TEE STREET 1/4" NPT
4		1	BS-6000662	ELBOW 45° - 1/4" M NPT - 1/4" F NPT
5		1	BS-6002808	ADAPTER, 1/2" M NPT X 1/4" M NPT
6		2	BS-6121604	CONNECTOR, 1/4" NYLON-1/4M NPT
7		1	BS-6002202	NIPPLE, HEX 1/4"X1/4" NPT
8		1	BS-6000263	PLUG, HEX HEAD 3/8" NPT
9		1	BS-6115102	ELBOW, 90° 1/4"NYLON - 1/8M NPT
10		1	BS-6121603	CONNECTOR, 1/4" NYLON-1/8" M NPT
11		3	BS-6000462	ELBOW, 90° 1/4"MNPT - 1/4F NPT
12		2	BS-6121606	CONNECTOR, 3/8" NYLON-1/4" M NPT
13		1	011229003	VALVE, SCHRAEDER
14		1	011239406	VALVE, PRESSURE REGULATING 20 PSI
* 15		1	051210001	VALVE, 3 WAY AIR PILOT MAC
16		1	011230504	VALVE, RELAY R-14

* Indicates item not shown on illustration

VALVE ASSEMBLY, LEVELING FRONT



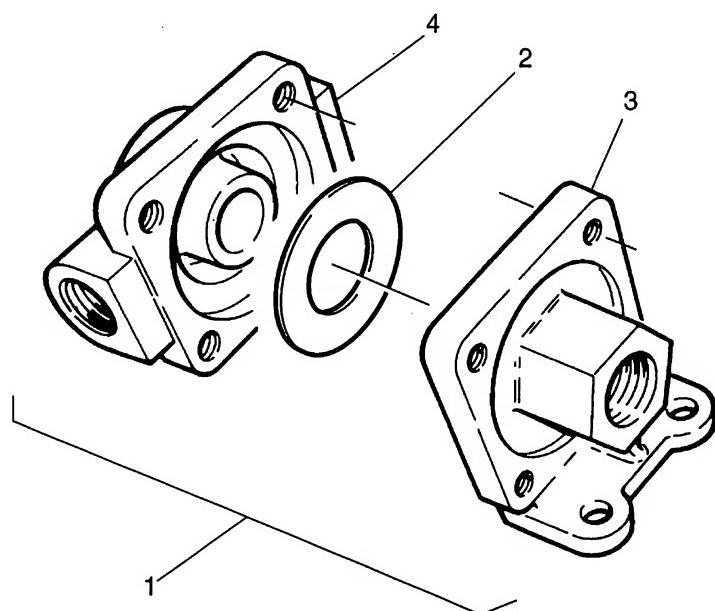
12-2589.fm
04/00

VALVE ASSEMBLY, LEVELING FRONT

REF	REV	QTY	PART NO	DESCRIPTION
				VALVE ASSEMBLY, LEVELING FRONT
1		1	011224503	VALVE, LEVELING FRONT MODIFIED RS (SEALED UNIT)
* 1A		1	011224502	VALVE, LEVELING FRONT CS (SEALED UNIT)
2		2	BS-6125203	ADAPTER, 1/8" FNPT X 7/16"
3		1	BS-6121603	CONNECTOR 1/4" NYLON X 1/8" NPT
4		1	051244501	HOSE ASSEMBLY 1/4" X 1/8" NPT FITTING

* Indicates item not shown on illustration

VALVE ASSEMBLY, QUICK RELEASE



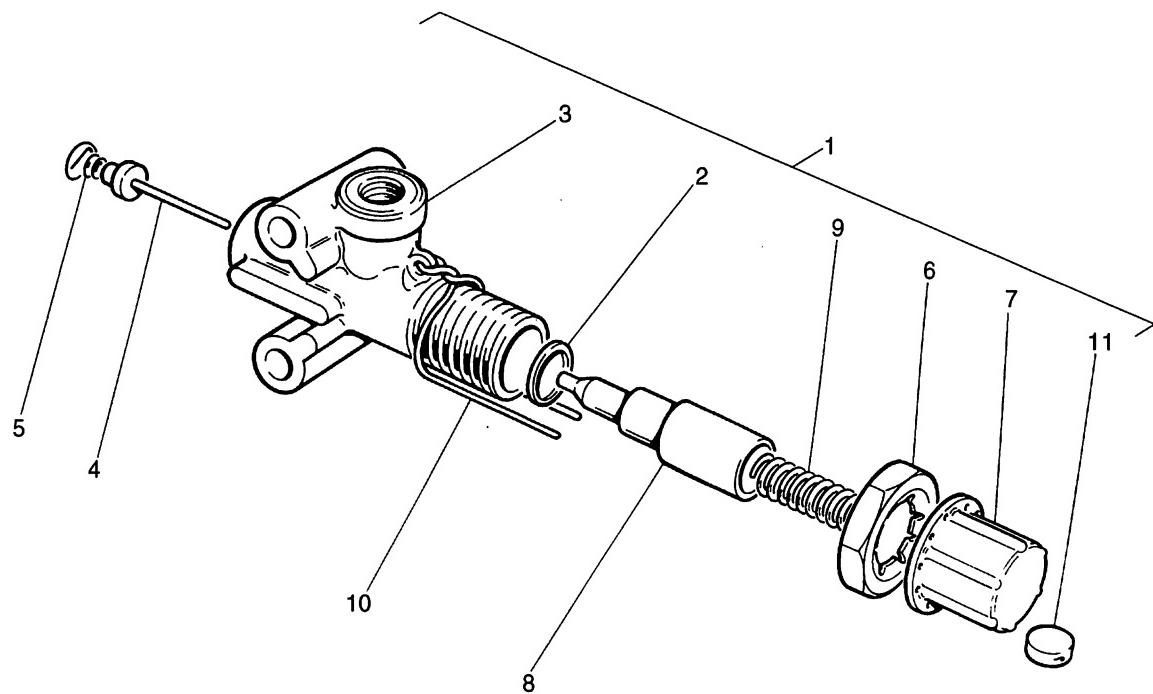
12-2592.fm
05/00

VALVE ASSEMBLY, QUICK RELEASE

REF	REV	QTY	PART NO	DESCRIPTION
				VALVE ASSEMBLY, QUICK RELEASE
1		1	051230532	VALVE, QUICK RELEASE 0 PSI
2		1	E1230532AB	DIAPHRAGM, QUICK RELEASE VALVE
3		1	E1230532AC	COVER, EXHAUST QUICK RELEASE VALVE
4		1	E1230532AD	BODY, UPPER QUICK RELEASE VALVE
* 5		2	E1230532AE	BUSHING, QUICK RELEASE VALVE

* Indicates item not shown on illustration

VALVE ASSEMBLY, PRESSURE REDUCING



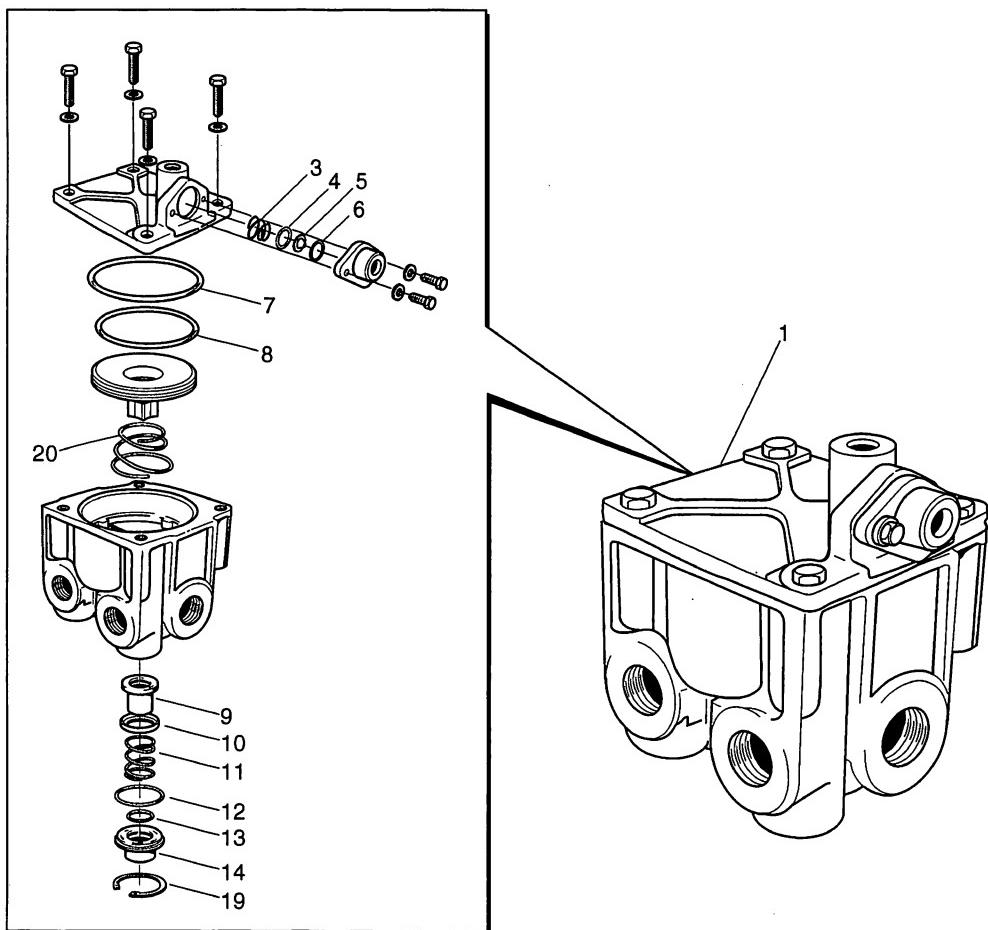
12-2509-1122
09/98

VALVE ASSEMBLY, PRESSURE REDUCING

REF	REV	QTY	PART NO	DESCRIPTION
				VALVE ASSEMBLY, PRESSURE REDUCING
1		1	011239402	VALVE, PRESSURE REDUCING (40 PSI)
2		1	A1239402AB	.GROMMET
3		1	A1239402AC	.BODY
4		1	A1239402CC	.VALVE ASSEMBLY, INLET AND EXHAUST
5		1	A1239402AD	.SPRING, VALVE PRESSURE REDUCING
6		1	A1239402AE	.NUT - STAMPED
7		1	A1239402AF	.CAP - ADJUSTING
8		1	A1239402AG	.PISTON
9		1	A1239402AH	.SPRING
10		1	A1239402AJ	.WIRE, LOCK
11		1	A1239402AK	.SEAL, LEAD
* 12		1	A1239402AL	.VALVE, BASIC PRESSURE REDUCING

* Indicates item not shown on illustration

VALVE, RELAY R12 DC



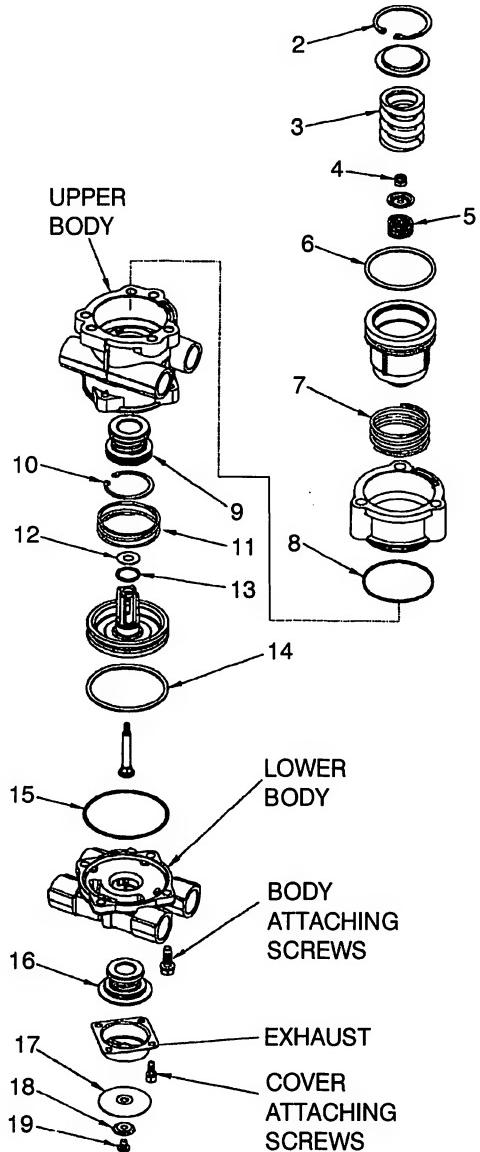
12-2565-1122
10/00 Rev 1

VALVE, RELAY R12 DC

REF	REV	QTY	PART NO	DESCRIPTION
				VALVE, RELAY R12 DC
1		1	051230531	VALVE RELAY R-12DC 7.5 PSI
* 2		1	E1230531ZA	.MAINTENANCE RELAY VALVE R-12DC KIT INCLUDES ITEM 3-19
3		1	NPN	..SPRING, VALVE
4		1	NPN	..GUIDE CHECK VALVE
5		1	NPN	..CHECK VALVE
6		1	NPN	..O-RING
7		1	NPN	..O-RING
8		1	NPN	..O-RING
9		1	E1230531AB	.VALVE EXHAUST/INLET
10		1	NPN	..RETAINER, VALVE
11		1	NPN	..SPRING
12		1	NPN	..O-RING
13		1	NPN	..O-RING
14		1	A1230504AR	.COVER EXHAUST COMPLETE (INCLUDES ITEM 15-18)
* 15		1	NPN	..RETAINER O-RING
* 16		1	NPN	..COVER EXHAUST
* 17		1	NPN	..DIAPHRAGM
* 18		1	NPN	..RIVET
19		1	NPN	..RETAINING RING
20		1	E1230531AC	.SPRING DIFFERENTIAL 7.5 PSI CRACK PRESSURE

* Indicates item not shown on illustration

VALVE, BRAKE TREADLE DOUBLE CIRCUIT E10P



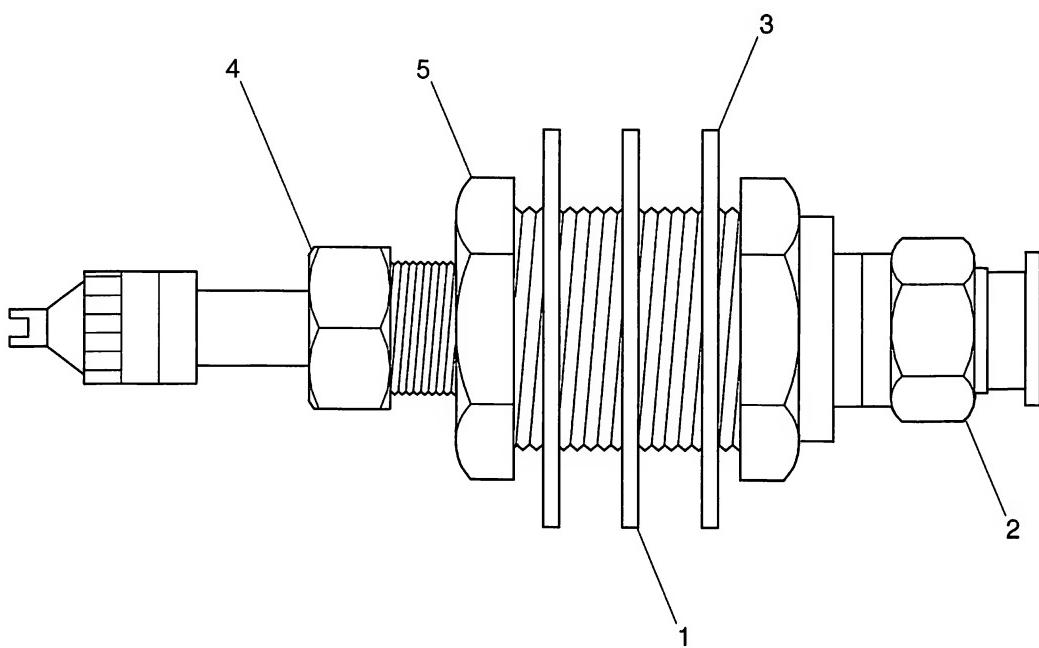
12-2579-1134.fm
01/01

VALVE, BRAKE TREADLE DOUBLE CIRCUIT E10P

REF	REV	QTY	PART NO	DESCRIPTION
			051219569	VALVE, BRAKE TREADLE DOUBLE CIRCUIT E10P
* 1		1	A1219505ZA	.MAINTENANCE KIT
2		1	NPN	.RING, RETAINING
3		1	NPN	.SPRING, GRADUATED
4		1	NPN	.LOCKNUT
5		1	NPN	.STEM SPRING
6		1	NPN	.O-RING
7		1	NPN	.PISTON RETAINER RING
8		1	NPN	.O-RING
9		1	NPN	.VALVE INLET AND EXHAUST ASSEMBLY
10		1	NPN	.RING, RETAINING
11		1	NPN	.SPRING, PISTON
12		1	NPN	.WASHER
13		1	NPN	.O-RING
14		1	NPN	.O-RING
15		1	NPN	.O-RING
16		1	NPN	.VALVE INLET AND EXHAUST ASSEMBLY
17		1	NPN	.DIAPHRAGM, EXHAUST
18		1	NPN	.DIAPHRAGM, WASHER
19		1	NPN	.SCREW # 10 TORX
* 20		1	NPN	.FILTER, VENT (NOT SHOWN)

* Indicates item not shown on illustration

VALVE, FRONT AIR SHOP

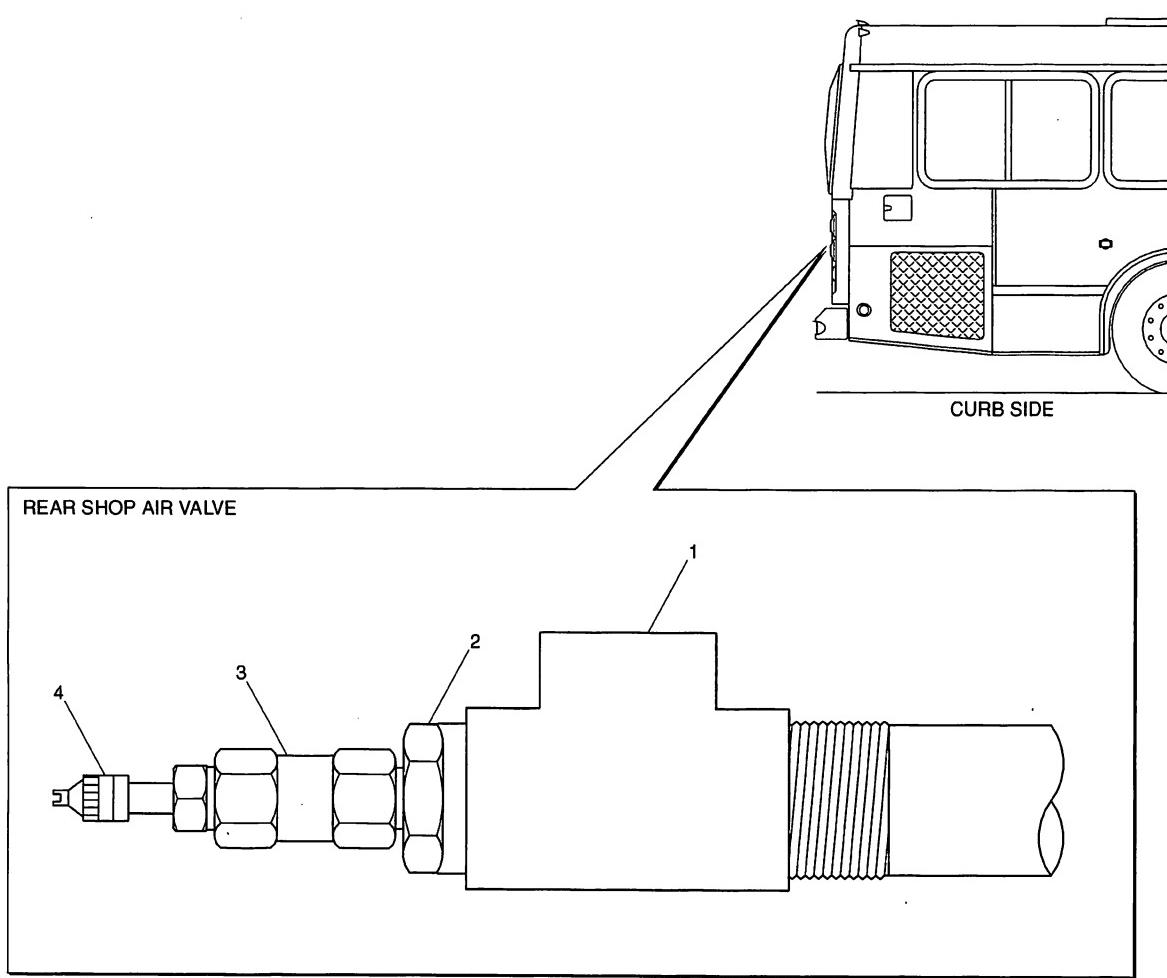


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11/00

VALVE, FRONT AIR SHOP

REF	REV	QTY	PART NO	DESCRIPTION
				VALVE, FRONT AIR SHOP
1		1	BS-4510235	WASHER, FLAT FIBER 1"
2		1	BS-6121606	CONNECTOR, 3/8" NYLON 1/4" MNPT
3		1	BS-4535112	WASHER, FLAT INTERNAL TOOTH 3/4"
4		1	011229003	VALVE, SCHRAEDER
5		1	BS-6002902	COUPLING, BULKHEAD 1/4" F NPT
<i>* Indicates item not shown on illustration</i>				

VALVE, REAR AIR SHOP

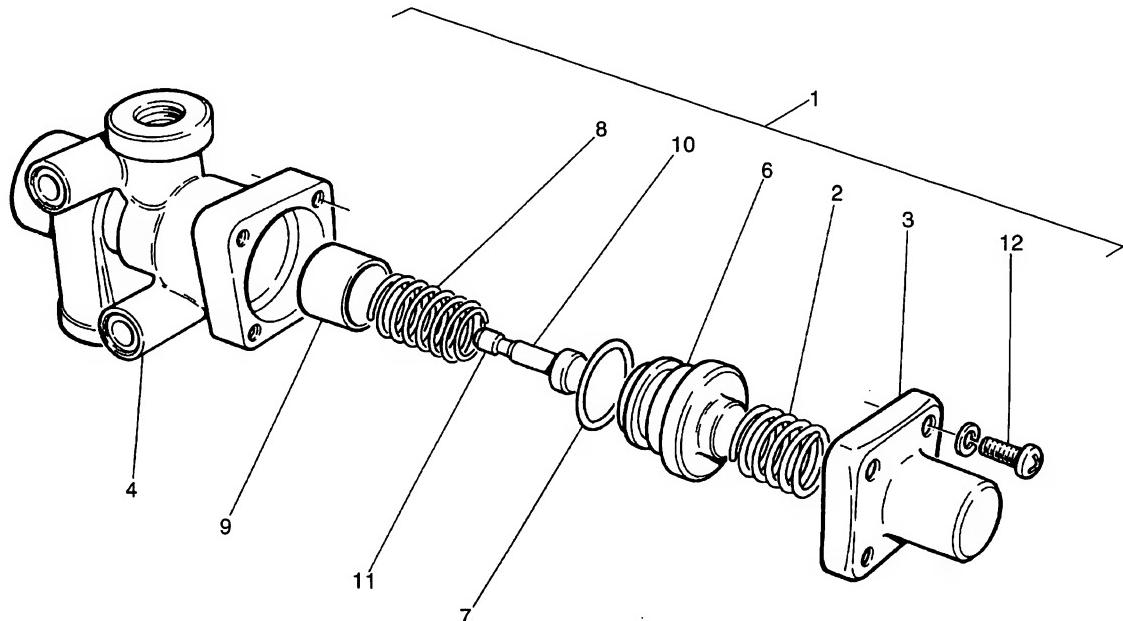


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11/00

VALVE, REAR AIR SHOP

REF	REV	QTY	PART NO	DESCRIPTION
				VALVE, REAR AIR SHOP
1		1	BS-6000885	PIPE, FEMALE TEE 3/4" BRASS
2		1	BS-6000068	BUSHING, 3/4"X1/4"
3		1	051216002	VALVE, CHECK SC-3 1/4" NPT
4		1	011229003	VALVE, SCHRAEDER TIRE VALVE
<i>* Indicates item not shown on illustration</i>				

VALVE, PRESSURE PROTECTION



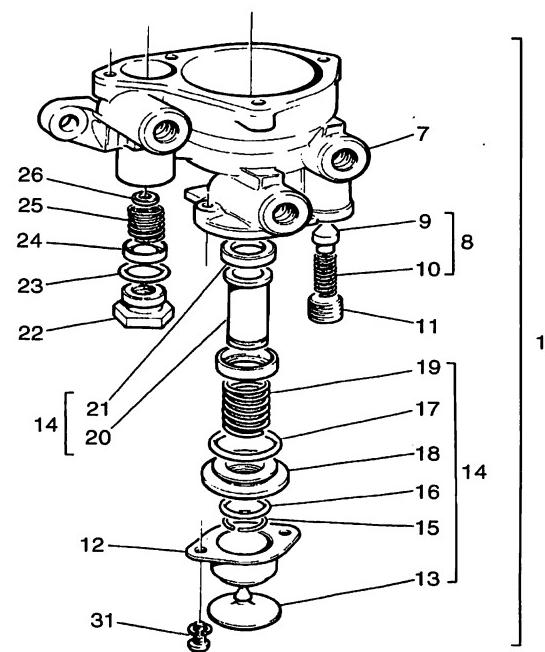
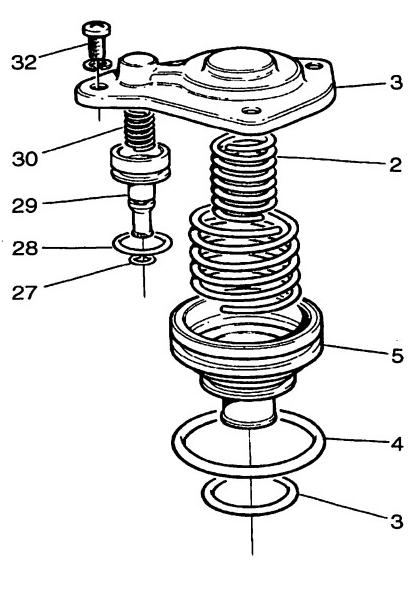
12-2510.fm
04/98

VALVE, PRESSURE PROTECTION

REF	REV	QTY	PART NO	DESCRIPTION
				VALVE, PRESSURE PROTECTION
1		1	011216005	VALVE, PRESSURE PROTECTION
2		1	A1216005AB	SPRING, OUTER
3		1	A1216003AC	SPRING, RETAINER
4		1	A1216003AD	BODY
*5		1	A1216003BB	PISTON ASSEMBLY
6		1	A1216003BC	PISTON
7		1	A1216003BD	O-RING
8		1	A1216003BE	VALVE, SPRING INLET
9		1	A1216003BF	RING, RETAINING
10		1	A1216003BG	STEM
11		1	A1216003BH	VALVE, INLET AND EXHAUST
12		4	A1219505AC	SCREW, MACHINE #10

* Indicates item not shown on illustration

VALVE, INVERSION



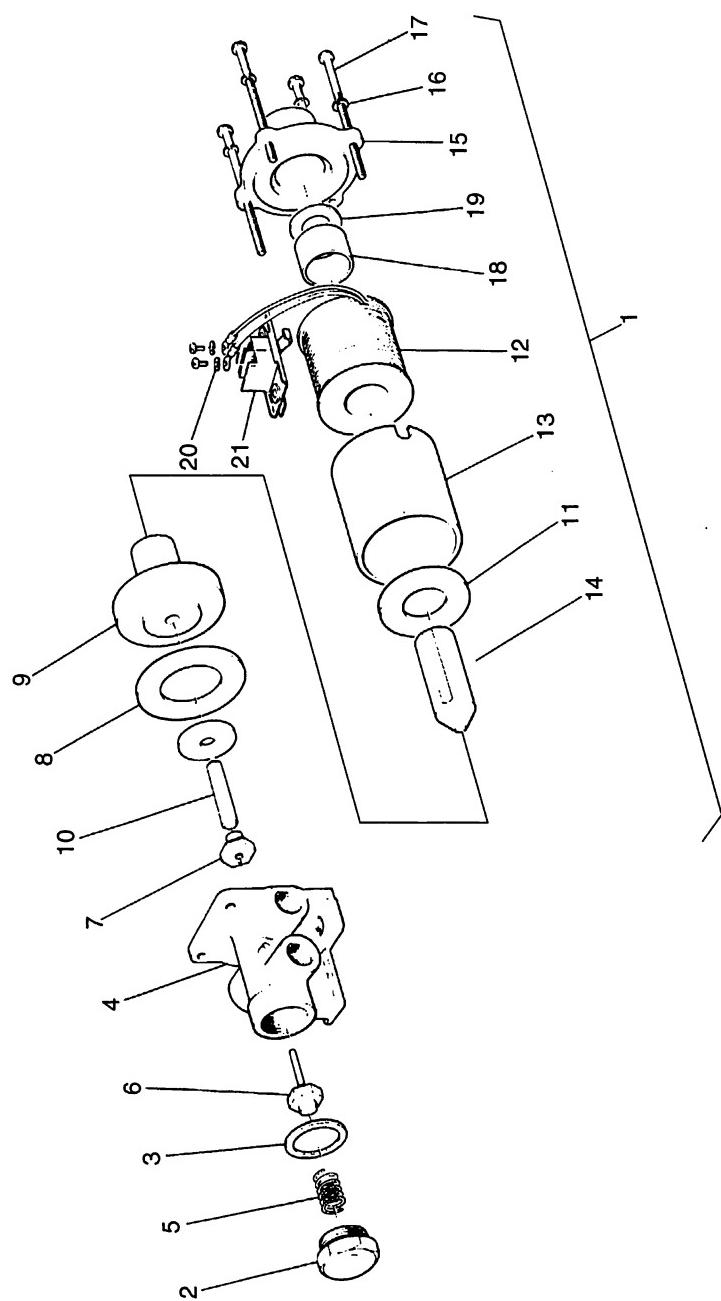
12-2507-1122.fm
06/98

VALVE, INVERSION

REF	REV	QTY	PART NO	DESCRIPTION
				VALVE, INVERSION
1		1	011223503	VALVE ASSEMBLY, INVERSION
2		1	SEE ITEM # 33	SPRING, PISTON
3		1	A1223503AC	COVER
4		1	SEE ITEM # 33	O-RING
5		1	A1223503AE	PISTON
* 6		1	SEE ITEM # 33	O-RING
7		1	A1223503AG	BODY
8		1	A1223503BB	VALVE ASSEMBLY, CHECK
9		1	SEE ITEM # 33	VALVE, CHECK
10		1	SEE ITEM # 33	VALVE, SPRING, CHECK
11		1	A1223503AH	PLUG, PIPE
12		1	A1223503AJ	COVER, EXHAUST
13		1	SEE ITEM # 33	DIAPHRAGM
14		1	SEE ITEM # 33	INLET AND EXHAUST VALVE ASSEMBLY
15		1	SEE ITEM # 33	RING, RETAINING
16		1	SEE ITEM # 33	O-RING
17		1	SEE ITEM # 33	O-RING
18		1	SEE ITEM # 33	GUIDE, VALVE
19		1	SEE ITEM # 33	SPRING, VALVE
20		1	SEE ITEM # 33	RETAINER, VALVE
21		1	SEE ITEM # 33	INLET AND EXHAUST
22		1	A1223503AL	NUT, CAP
23		1	A1223503AM	O-RING
24		1	SEE ITEM # 33	STOP, VALVE
25		1	SEE ITEM # 33	SPRING, VALVE
26		1	SEE ITEM # 33	VALVE
27		1	SEE ITEM # 33	O-RING, PISTON SMALL
28		1	SEE ITEM # 33	O-RING, PISTON LARGE
29		1	A1223503AU	PISTON
30		1	SEE ITEM # 33	SPRING, PISTON
31		2	A1223503AW	SCREW, MACHINE AND LOCK WASHER
32		4	A1223503AX	SCREW, MACHINE AND LOCK WASHER
* 33		1	A1223503ZA	SERVICE KIT (ITEMS 2,4,6,9,10,13-21,24-28,30)

* Indicates item not shown on illustration

VALVE, INTERLOCK



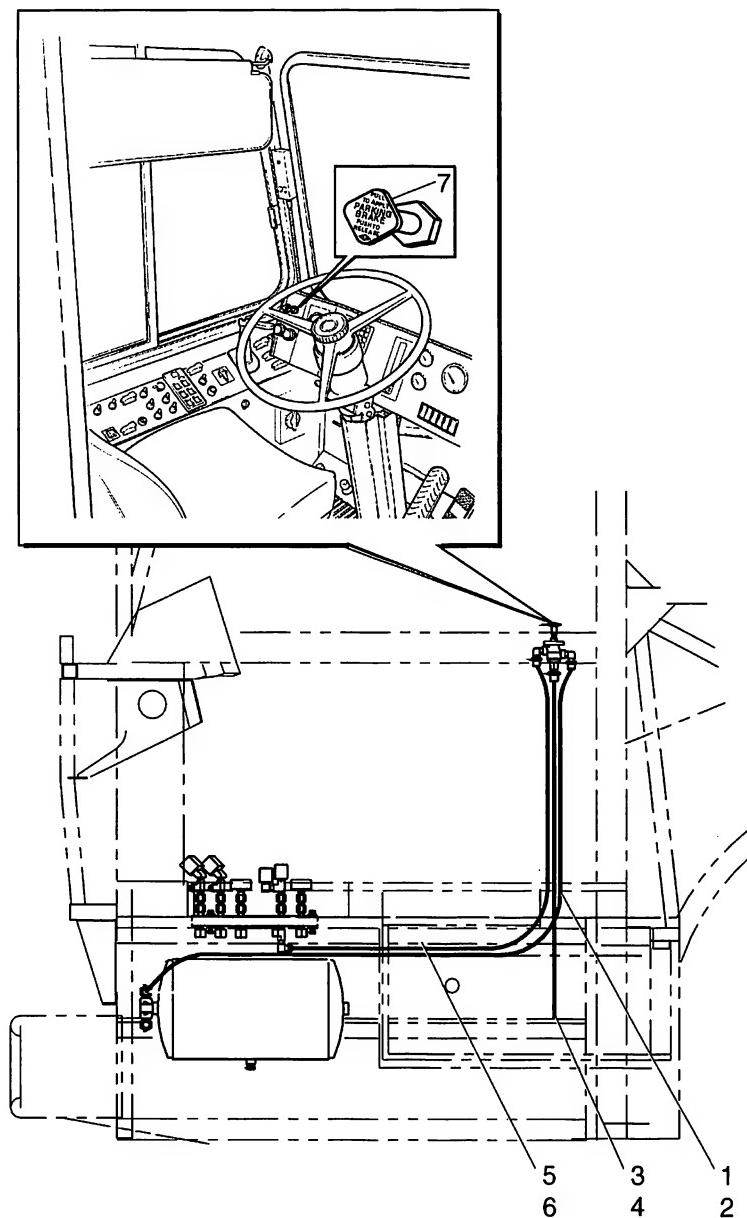
12-2521-1122.fm
03/98

VALVE, INTERLOCK

REF	REV	QTY	PART NO	DESCRIPTION
				VALVE, INTERLOCK
1		1	011239504	VALVE, INTERLOCK 24V
2		1	A1239502AB	.PLUG, END
3		1	NPN	.WASHER
4		1	A1239502AD	.BODY, VALVE
5		1	NPN	.SPRING
6		1	NPN	.VALVE SEAT ASSEMBLY
7		1	NPN	.VALVE SEAT ASSEMBLY
8		AR	NPN	.WASHER
9		1	A1239502DD	.SPACER ASSEMBLY
10		1	A1239502AK	.ROD, PUSH
11		1	A1239502AG	.WASHER, RUBBER
12		1	A1202501EE	.COIL ASSEMBLY, 24V
13		1	A1239502AH	.SHELL, SOLENOID
14		1	A1239502AJ	.PLUNGER
15		1	A1239502AY	.COVER, END SPECIAL ORDER
16		4	A1239502AL	.LOCKWASHER
17		4	A1239502AM	.SCREW
18		1	A1239502AN	.BUSHING, END COVER
19		1	A1239502AP	.DISC, FIBRE
20		4	A1239502AR	.WASHER, LOCK
21		1	A1239502AS	.BLOCK TERMINAL ASSEMBLY
*22		1	A1239502ZA	.SERVICE REPAIR KIT

* Indicates item not shown on illustration

AIR LINE, PARKING BRAKE VALVE



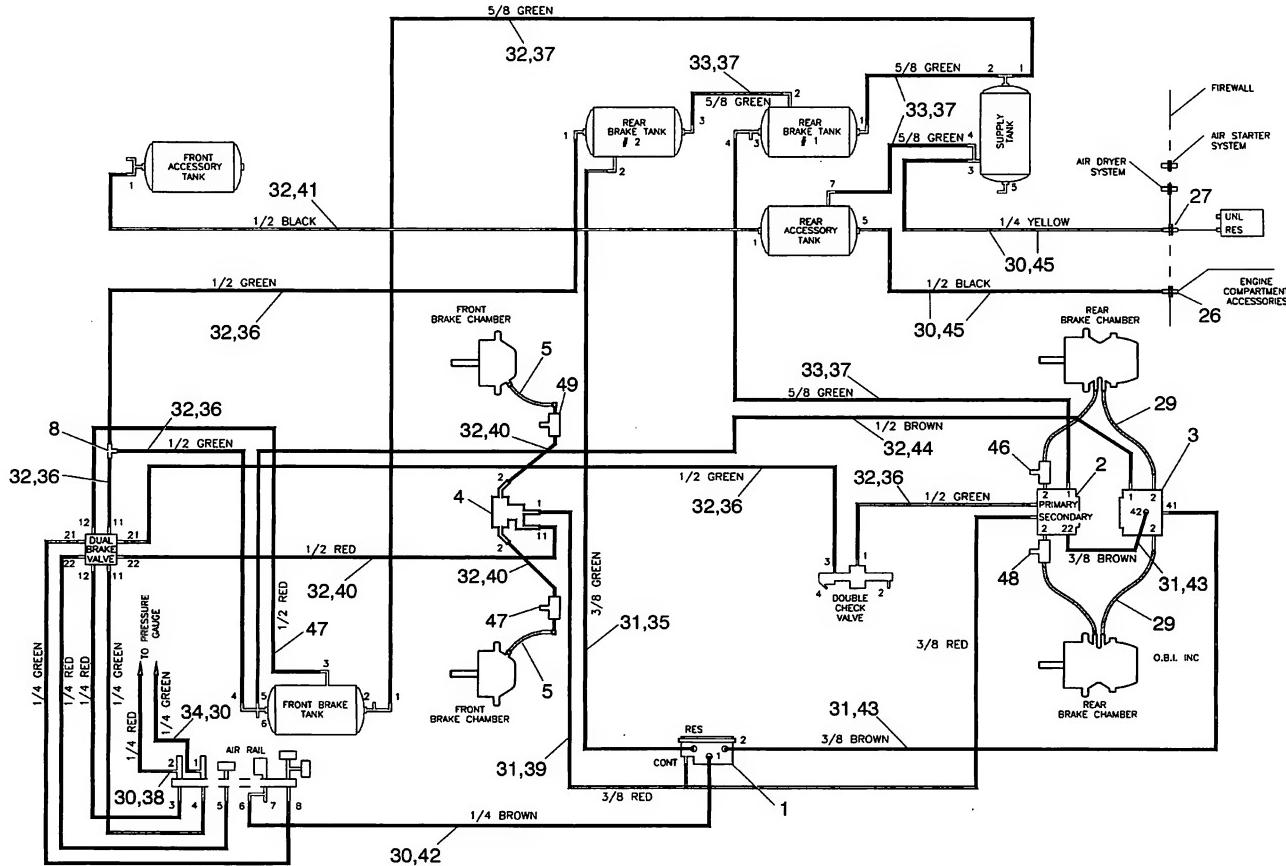
12-2563-1122.fm
05/99

AIR LINE, PARKING BRAKE VALVE

REF	REV	QTY	PART NO	DESCRIPTION
	NR		SK2200-0042	AIR LINE, PARKING BRAKE VALVE
1		6	BS-2612156	TUBE, BROWN NYLON AIR BRAKE 3/8"
2		6	BS-5003103	LOOM, 3/8 ID CORRG. SPLIT
3		6	BS-2612108	HOSE, AIR BRAKE 1/2" OD BLACK
4		6	BS-5003104	LOOM, 1/2 ID CORRG SPLIT
5		5	BS-2611154	TUBE, AIR BRAKE 1/4 OD BROWN
6		5	BS-5003101	LOOM, 1/4" ID CORRUGATEDG SPLIT
7				NOT APPLICABLE

* Indicates item not shown on illustration

AIR SYSTEM LAYOUT

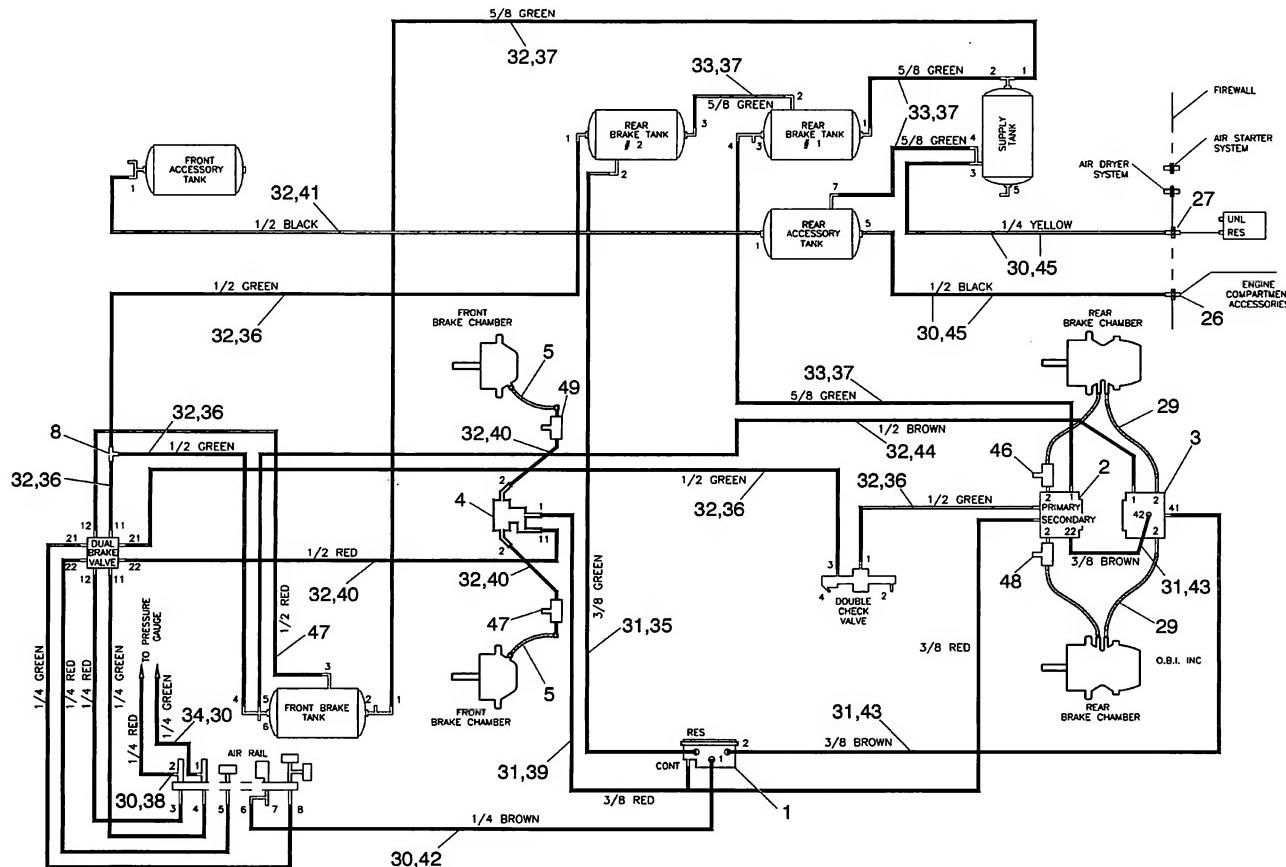
12-1076.fm
01/00

AIR SYSTEM LAYOUT

REF	REV	QTY	PART NO	DESCRIPTION
AIR SYSTEM LAYOUT				
1		1	011223503	VALVE ASSEMBLY, SPRING BRAKE
2		1	051230531	VALVE ASSEMBLY, RELAY R-12DC
3		1	011230504	VALVE ASSEMBLY, RELAY 4.0 PSI
4		1	051230532	VALVE ASSEMBLY, QUICK RELEASE
5		2	051221509	HOSE ASSEMBLY, FRONT BRAKE
* 6		25	BS-4202305	NUT, NYLON INSERT 5/16 UNC
* 7		50	BS-4500121	WASHER, FLAT 5/16
8		1	BS-6121304	TEE, TUBE TO TUBE TO TUB
* 9		4	BS-2634107	WASHER, NEOPRENE 15/64 IDX
* 10		7	BS-2614008	GROMMET, RUBBER 7/8 ID
* 11		3	BS-2634350	BUSHING, SNAP IN 2"ID
* 12		9	BS-2614057	GROMMET, RUBBER 1-1/4"
* 13		16	BS-2614056	GROMMET, RUBBER 1/2" ID X 3/4"
* 14		3	BS-2614010	GROMMET RUBBER 5/8" ID
* 15		3	BS-2614013	GROMMET, RUBBER 11/16"
* 16		12	BS-2614005	GROMMET, RUBBER 9/32 ID X 1
* 17		21	BS-4121142	HHCS 5/16"-18NCX2.50,ZN PL
* 18		4	011234003	CLAMP, DOUBLE TUBE 3/4
* 19		7	011260001	CLAMP, MULTI TYPE 12"LNG/8
* 20		7	BS-2616105	BUSHING, SPLIT 5/8"
* 21		1	BS-2616106	BUSHING, SPLIT 3/4 C-SB-10
* 22		30	BS-2616104	BUSHING, (1/2) SPLIT
* 23		8	BS-2616101	BUSHING, SPLIT 1/4"
* 24		22	BS-5300717	TIE, PLASTIC 15"
* 25		14	011260005	CLAMP, MULTI TYPE 3" LG
26		1	051202504	FITTING, REAR BULKHEAD LH
27		1	051202505	FITTING, REAR BULKHEAD RH
* 28		1	BS-5202304	CLAMP, RUBBER LINED 1-1/4"
29		8	011245006	SEPARATOR, HOSE
30		64	BS-5003101	LOOM, 1/4" ID CORRUGATED SPLIT
31		21	BS-5003103	LOOM, 3/8" ID CORRUGATED SPLIT
32		151	BS-5003104	LOOM, 1/2" ID CORRUGATED SPLIT
33		42	BS-5003105	LOOM, 5/8" ID CORRUGATED SPLIT
34		14	BS-2611124	HOSE, AIR BRAKE-1/4" OD GREEN
35		4	BS-2612126	HOSE, AIR BRAKE 3/8" OD GREEN
36		65	BS-2612128	HOSE, AIR BRAKE 1/2" OD GREEN

* Indicates item not shown on illustration

AIR SYSTEM LAYOUT

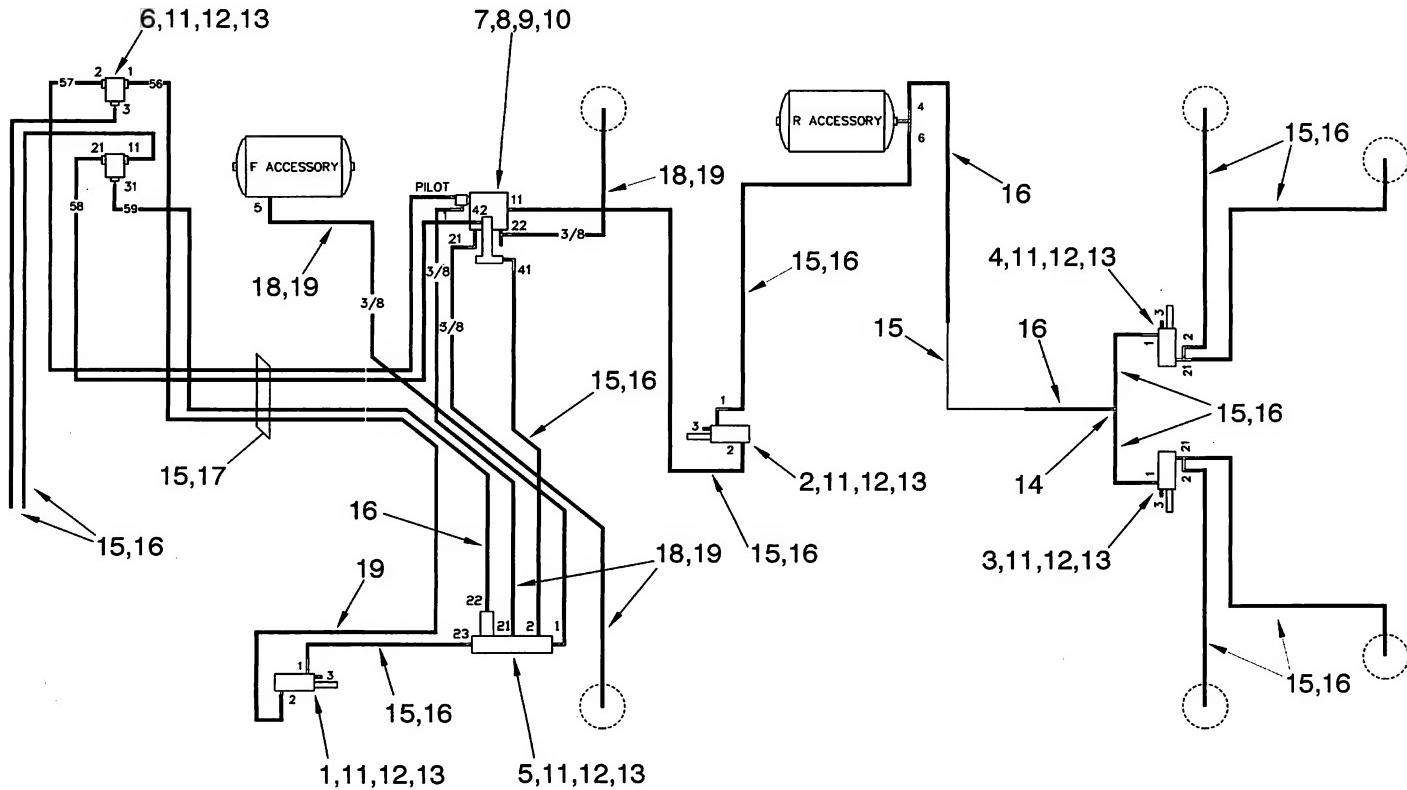


AIR SYSTEM LAYOUT

REF	REV	QTY	PART NO	DESCRIPTION
37		48	BS-2612130	HOSE, AIR BRAKE 5/8" OD GREEN
38		14	BS-2611114	HOSE, AIR BRAKE-1/4" OD RED
39		16	BS-2612116	HOSE, AIR BRAKE 3/8" OD-RED
40		20	BS-2612118	HOSE, AIR BRAKE-1/2" OD RED
41		51	BS-2612108	HOSE, AIR BRAKE 1/2" OD BLACK
42		16	BS-2611154	TUBE, AIR BRAKE 1/4" OD-BROWN
43		16	BS-2612156	TUBE, 3/8" BROWN NYLON AIR
44		50	BS-2612158	TUBE, 1/2" BROWN NYLON AIR
45				NOT APPLICABLE
46			See page 12-33	VALVE ASSEMBLY, MODULATOR FRONT RS
47			See page 12-35	VALVE ASSEMBLY, MODULATOR REAR RS
48			See page 12-33	VALVE ASSEMBLY, MODULATOR FRONT CS
49			See page 12-35	VALVE ASSEMBLY, MODULATOR REAR CS

* Indicates item not shown on illustration

KNEELING SYSTEM INSTALLATION



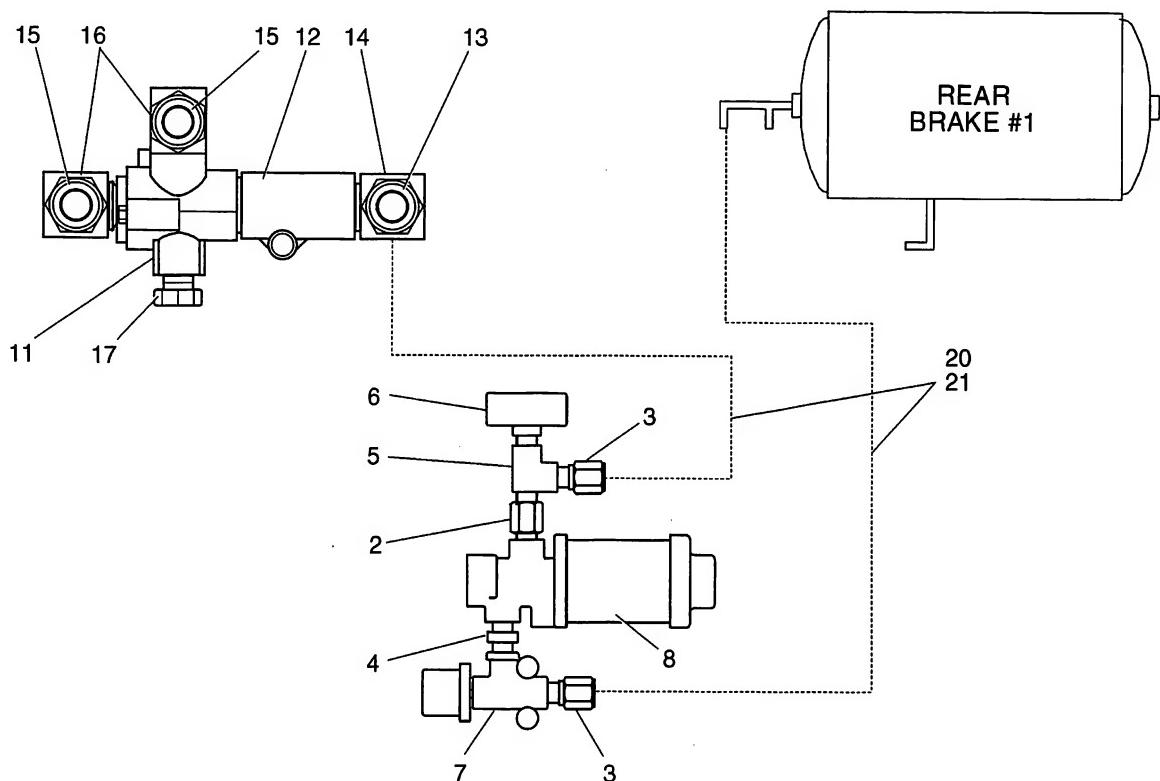
12-1120-1154A.fm
01/00

KNEELING SYSTEM INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
		1		KNEELING SYSTEM INSTALLATION
1		1	See page 12-41	VALVE ASSEMBLY, FRONT KNEELING
2		1	051224503	VALVE ASSEMBLY, FRONT LEVELING
3		1	051225503	VALVE ASSEMBLY, REAR LEVELING CS
4		1	051226503	VALVE ASSEMBLY, REAR LEVELING RS
5		1	See page 12-77	MANIFOLD, AIR
6		1	See page 12-37	VALVE, MACHINE 24V
7		1	See page 12-39	VALVE, RELAY R14
8		2	BS-4121157	SCREW, HXHD 3/8-16NCX1.25"
9		2	BS-4202306	NUT, NYLOCK 3/8-16NC GR.5
10		4	BS-4500122	WASHER, FLAT 3/8" C/Z PL
11		12	BS-4121117	SCREW, 1/4-20NCX1.25,ZN P
12		12	BS-4202304	NUT, NYLOCK 1/4-20NC ZPL G
13		12	BS-4500120	WASHER, FLAT 1/4" C/ZPL
14		1	BS-6121302	TEE-TUBE 1/4"
15		125	BS-2611104	HOSE, AIR BRAKE 1/4 OD BLA
16		70	BS-5003101	LOOM, 1/4" ID CORRUGATED SPLIT
17		12	BS-5003106	LOOM-3/4 ID CORRUGATED SPLIT
18		18	BS-2612106	HOSE-AIR BRAKE-3/8 OD BLACK
19		18	BS-5003103	LOOM-3/8 ID CORRUGATED SPLIT
* 20		20	BS-5300509	TIE, PLASTIC-7-3/4
* 21		10	BS-5300717	TIE, PLASTIC 15"
* 22		1	010104406	BRACKET ASSEMBLY, LEVELLING VALVE
* 23		1	011224001	LINK, LEVELLING VALVE

* Indicates item not shown on illustration

INTERLOCK ASSEMBLY, BRAKE



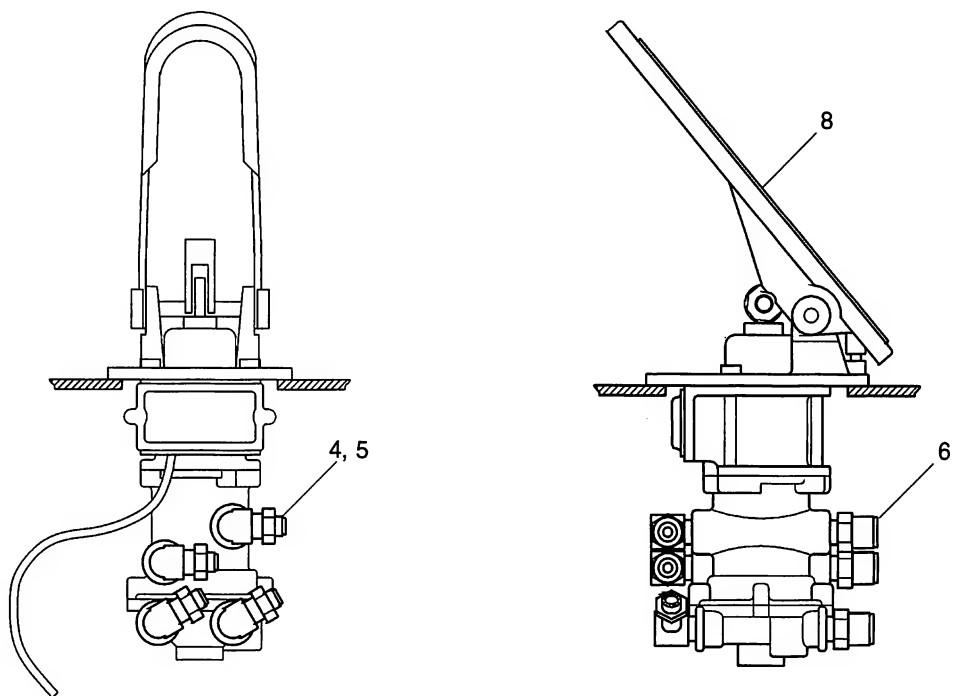
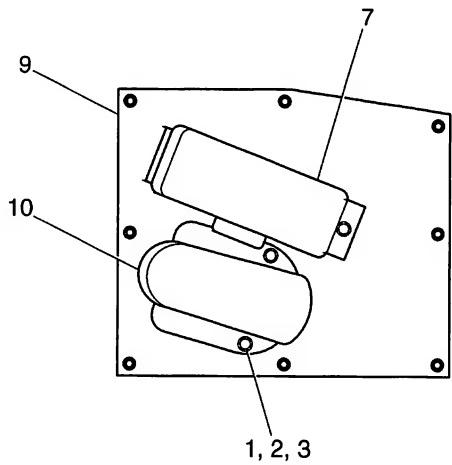
12-2588
05/99

INTERLOCK ASSEMBLY, BRAKE

REF	REV	QTY	PART NO	DESCRIPTION
				INTERLOCK ASSEMBLY, BRAKE
REF		1	051239512	BRAKE INTERLOCK ASSEMBLY
2		1	BS-6002802	.ADAPTER, (1/4" M NPT - 1/4" F NPT
3		2	BS-6121609	.TUBE, 1/2 TO 1/4 MALE NP
4		1	BS-6002202	.HEX NIPPLE 1/4"-1/4" NPT
5		1	BS-6000962	.TEE-STREET 1/4" NPT
6		1	011220008	.SWITCH, PRESSURE 4PSI
7		1	011239402	.VALVE, REGULATOR RVI - 40 PSI
8		1	011239504	.VALVE, BRAKE INTERLOCK SOLENOID 24V
* 9		6	BS-5300717	TIE, PLASTIC 15"
* 10		1	051227504	VALVE, ASSEMBLY, DOUBLE CHECK
11		1	011227505	VALVE, CHECK DOUBLE DC4
* 11A		1	A1227505AF	.VALVE, SHUTTLE
* 11B		1	A1227505AG	.O-RING
* 11C		1	A1227505AH	.GUIDE, SHUTTLE
12		1	011228401	BRACKET, VALVE
13		1	BS-6121611	CONNECTOR, 1/2" NYLON - 1/4" M NPT
14		1	BS-6000464	ELBOW, 90° 1/2" M NPT-1/2" FNPT
15		2	BS-6121609	CONNECTOR, 1/2" NYLON - 1/4" M NPT
16		2	BS-6000462	ELBOW, 90°, 1/4" NYLON - 1/4" M NPT
17		1	BS-6000262	PLUG, HEX HD 1/4" NPT
* 18		3	BS-4500121	WASHER 5/16" FL CAD ZN
* 19		3	BS-4520121	WASHER LOCK 5/16 STEEL
20		13	BS-2612128	HOSE, AIR BRAKE 1/2 OD
21		AR	BS-5003104	LOOM, 1/2" ID CORRUGATED
* 22		1	BS-4202306	NUT NYLOCK 3/8" - 16NC
* 23		1	BS-4121162	SCREW HX HD 3/8" NC X 2-1/2 G

* Indicates item not shown on illustration

PEDALS, BRAKE AND ACCELERATOR E10P INSTALLATION



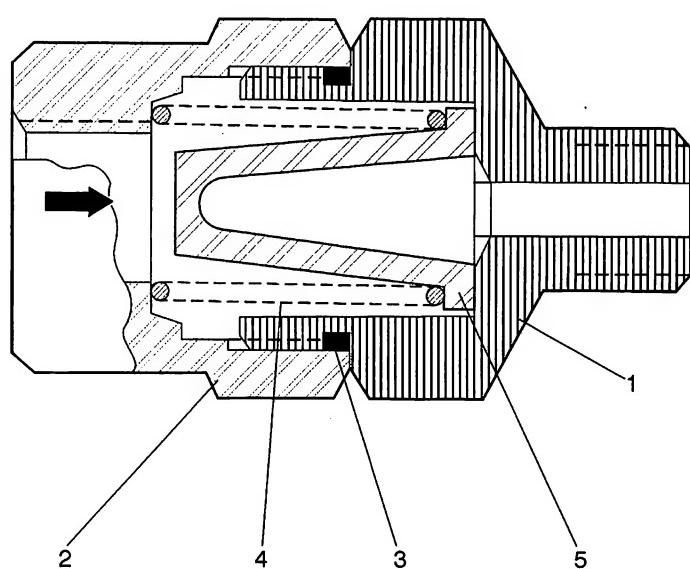
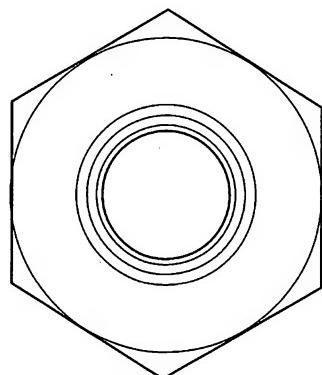
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01/01

PEDALS, BRAKE AND ACCELERATOR E10P INSTALLATION

REF	REV	QTY	PART NO	DESCRIPTION
	N		SK2209-0001	PEDALS, BRAKE AND ACCELERATOR E10P INSTALLATION
	A		SK2209-0002	PEDALS, BRAKE AND ACCELERATOR
1		12	BS-4500121	WASHER 5/16"
2		6	BS-4202305	NUT NYLOCK 5/16" - 18NC
3		6	BS-4121136	SCREW 5/16" - 18NC
4		4	BS-6000463	PUSH LOCK ELBOW 90°
5		4	BS-6121605	CONNECTOR, 1/4" NYLON 3/8" M NPT
6		4	BS-6121610	CONNECTOR, 1/2" NYLON 3/8" M NPT
7		1	051219535	PEDAL, ELECTRIC THROTTLE 45°
8		1	011219506	PLATES, MOUNTING AND TREADLE
9		1	061715015	PLATE, E-15 BRAKE VALVE AND ACCESSORY PEDAL
10		1	See page 12-49	PEDAL, BRAKE E10P

* Indicates item not shown on illustration

FILTER, PRESSURE PROTECTION VALVE



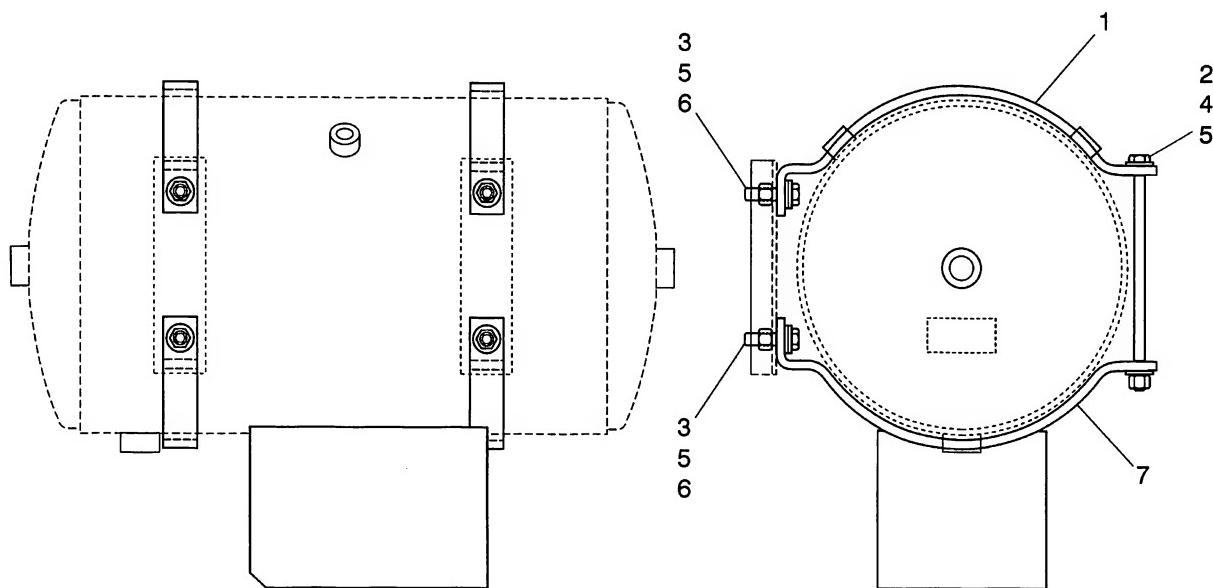
12-6079
02/00

FILTER, PRESSURE PROTECTION VALVE

REF	REV	QTY	PART NO	DESCRIPTION
			011216004	FILTER, PRESSURE PROTECTION VALVE
1		1	A1216004AD	.BODY
2		1	A1216004AE	.COVER
3		1	A1216004AC	.O-RING
4		1	A1216004AF	.SPRING
5		1	A1216004AG	.FILTER

* Indicates item not shown on illustration

MOUNTING KIT, AIR TANK



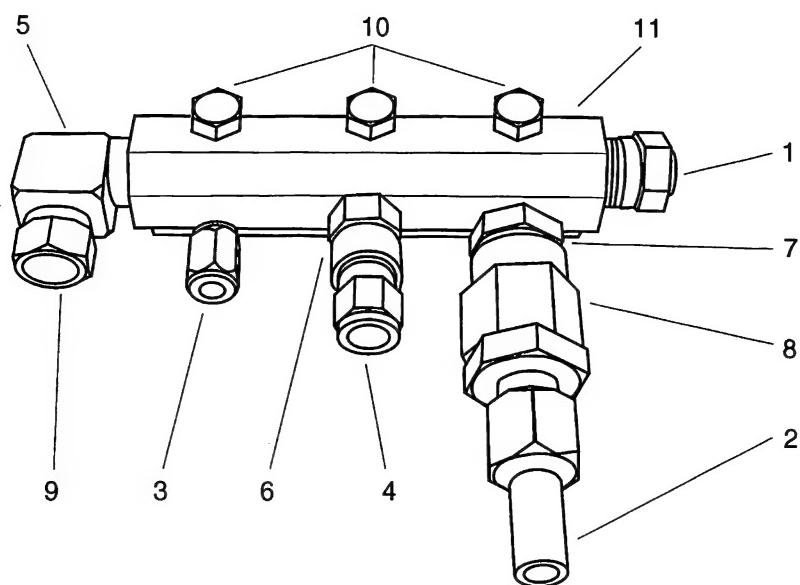
12-4513-1154A.fm
03/01

MOUNTING KIT, AIR TANK

REF	REV	QTY	PART NO	DESCRIPTION
	A		051213551	MOUNTING KIT, AIR TANK
			051213549	MOUNTING KIT, AIR TANK
			051213546	MOUNTING KIT, AIR TANK
1		3	011213005	BRACKET, AIR TANK MOUNTING
2		6	BS-4121474	SCREW, HS HD 3/8NC-6" G5 BZC
3		12	BS-4121157	SCREW, HXHD 3/8-16NCX1.25"
4		6	BS-4202306	NUT, NYLOCK 3/8-16NC GR.5
5		24	BS-4500122	WASHER, FLAT 3/8" C/Z PL
6		12	BS-4520122	WASHER, LOCK 3/8" Z PL
7		1	051213402	WELDMENT, GUARD MOUNT
* 8		1	051213401	WELDMENT, GUARD MOUNT
* 9		1	051213010	GUARD, AIR TANK BALL VAL
* 10		6	BS-6109114	COCK, DRAIN EXERIOR 1/2"

* Indicates item not shown on illustration

MANIFOLD ASSEMBLY, AIR



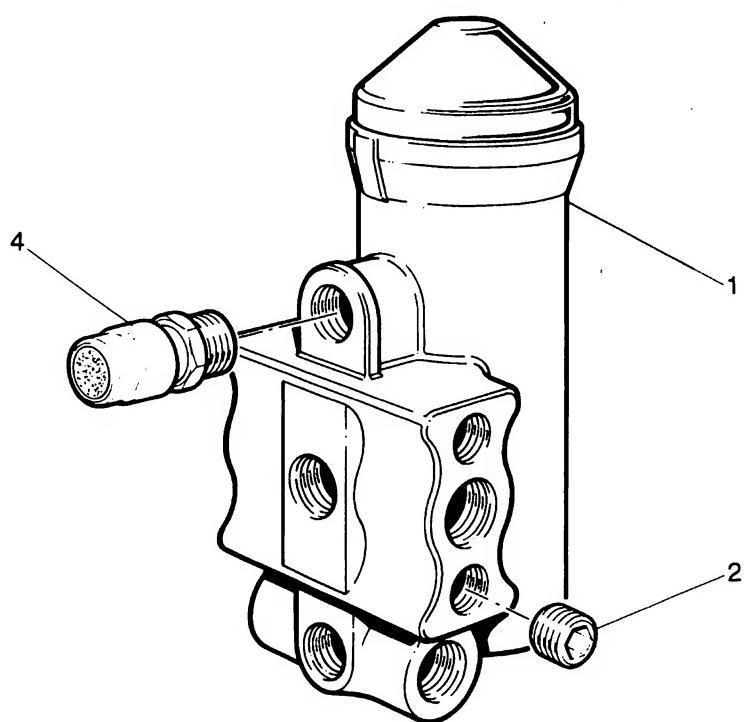
12-6077.fm
02/00

MANIFOLD ASSEMBLY, AIR

REF	REV	QTY	PART NO	DESCRIPTION
			051210519	MANIFOLD ASSEMBLY, AIR
1		1	BS-6121605	CONNECTOR, 1/4" NYLON-3/8" MNPT
2		1	BS-6121804	CONNECTOR, 1/4" NYLON X 1/4 F NPT
3		1	BS-6121603	CONNECTOR, 1/4" NYLON X 1/8" MNPT
4		1	BS-6121606	CONNECTOR, 3/8" NYLON-1/4" MNPT
5		1	BS-6000463	ELBOW, 90° 3/8M NPT-3/8F NPT
6		1	BS-6002803	ADAPTER, 1/4" FNPTX1/8" M NPT
7		1	BS-6002203	NIPPLE, HEXAGONAL 1/8"X1/4" NPT
8		1	011218005	VALVE, CHECK SC-1 1/4"
9		2	BS-6121607	CONNECTOR 3/8" NYLON -3/8" M NPT
10		3	BS-6000261	PLUG HX HD 1/8" NPT
11		1	011220002	MANIFOLD, AIR SYSTEM

* Indicates item not shown on illustration

GOVERNOR ASSEMBLY, AIR COMPRESSOR



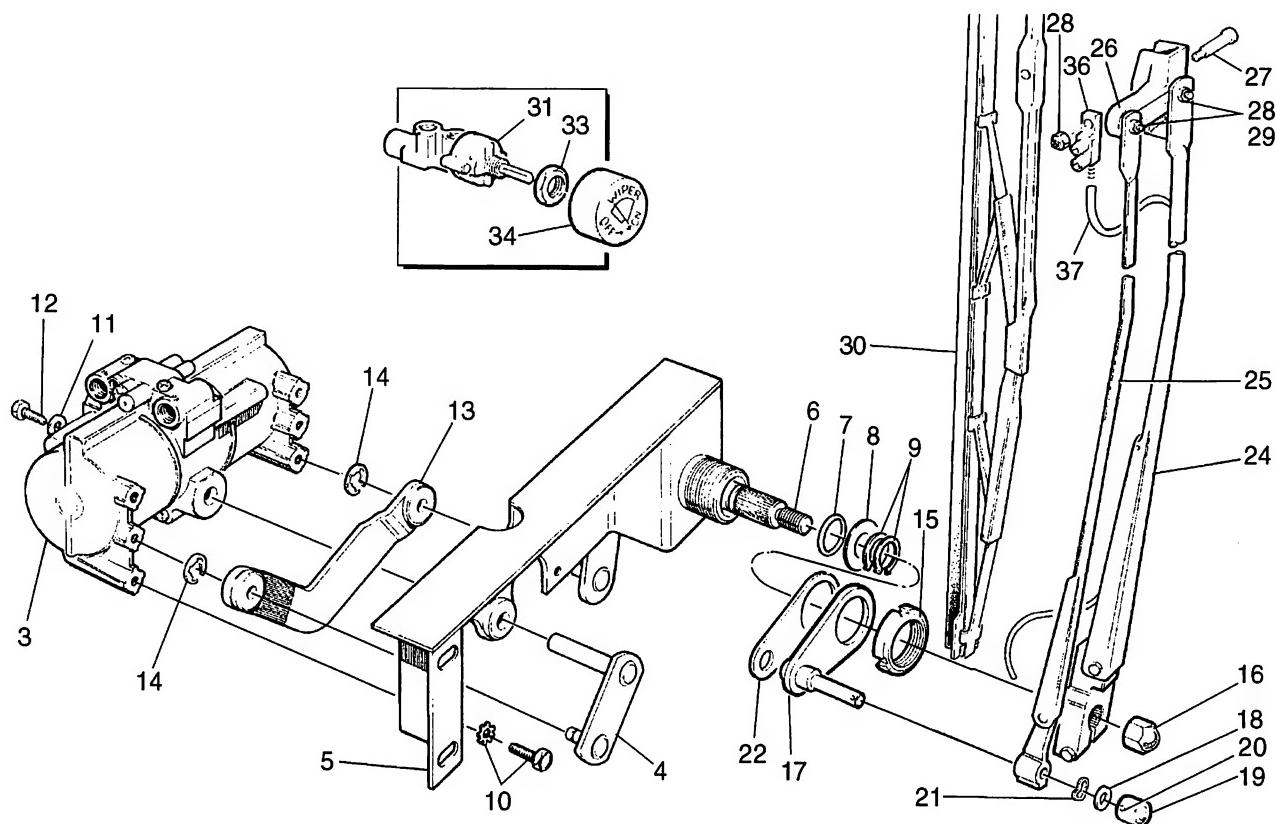
12-3001-1122
02/98

GOVERNOR ASSEMBLY, AIR COMPRESSOR

REF	REV	QTY	PART NO	DESCRIPTION
				GOVERNOR ASSEMBLY, AIR COMPRESSOR
1		1	051207501	GOVERNOR ASSEMBLY, AIR COMPRESSOR
* 1A		1	E1207501AC	.COMPRESSOR, AIR - GOVERNOR
2		4	BS-6000270	.PLUG - 1/8 PIPE
* 3		1	E1207501ZA	KIT, MAINTENANCE REPAIR GOVERNOR ASSEMBLY
4		1	051207001	.BREATHER, GOVERNOR
* 5		1	010710016	.GASKET, GOVERNOR
* 6		1	E1207501AB	.COVER
* 7		1	A1219503BG	.O-RING

* Indicates item not shown on illustration

WIPER KIT, WINDSHIELD



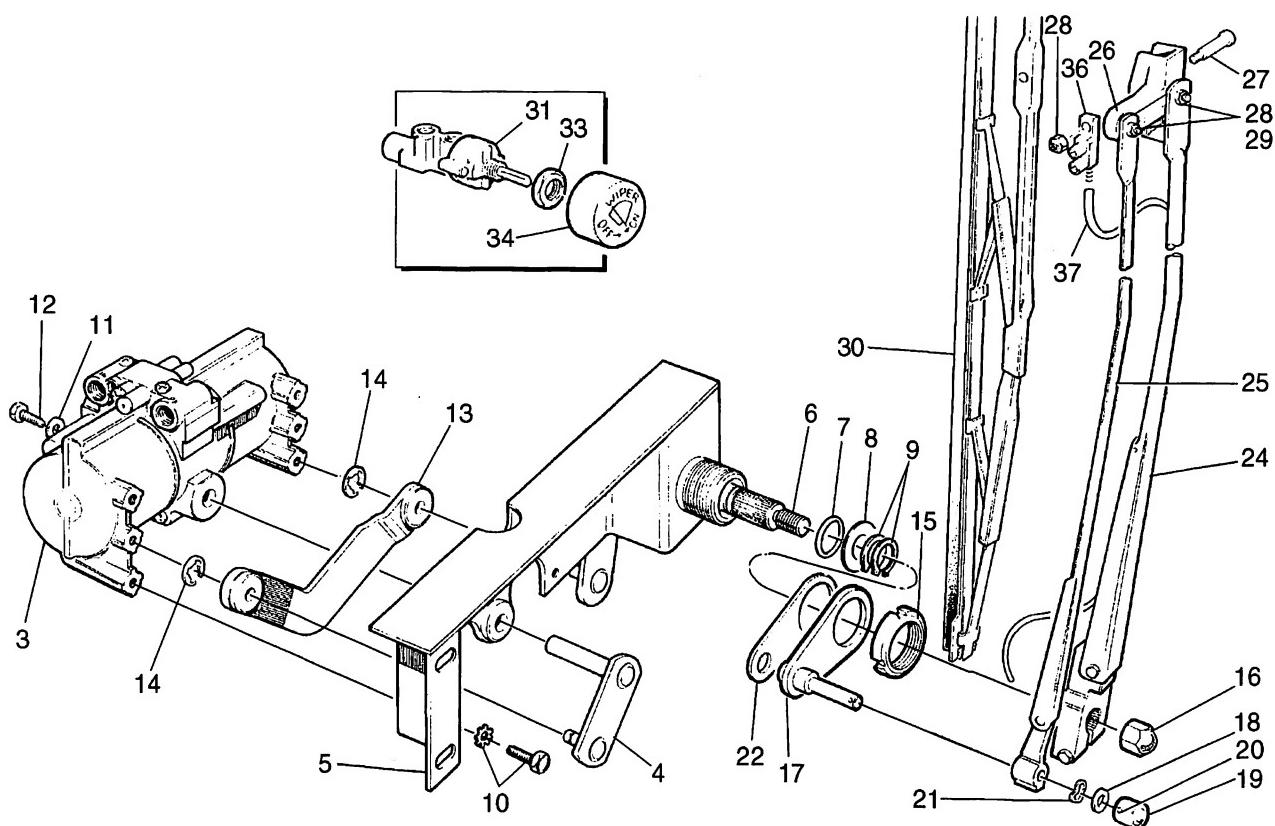
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03/01

WIPER KIT, WINDSHIELD

REF	REV	QTY	PART NO	DESCRIPTION
				WIPER KIT, WINDSHIELD
* 1		1	051232904	WINDSHIELD WIPER KIT (AIR WASHER SYSTEM)
* 2		1		NOT APPLICABLE
* 2A		1		NOT APPLICABLE
3		1	051232516	MOTOR, WIPER, CS
* 3A		1	051232507	MOTOR, WIPER, RS
4		1	E1232903BB	WELDMENT, SHAFT, TRANSMISSION
5		1	E1232903AB	BRACKET, WIPER ASSEMBLY, CS
* 5A		1	E1232903DB	BRACKET, WIPER ASSEMBLY, RS
6		1	E1232903AC	WELDMENT, SHAFT, CS (IDLER)
* 6A*		1	E1232903DC	WELDMENT, SHAFT, RS (IDLER)
7		1	E1232903AD	O-RING
8		1	A1232901AL	WASHER
9		2	B1267901EA	RING, RETAINING, BOWED
10		4	A1232901AJ	BOLT, HEX
11		1	A1232901ED	WASHER
12		1	A1232901EB	BOLT, LOCK
13		1	A1232901HH	LINKAGE ASSEMBLY (USED ON C/S OF BUS)
* 13A		1	A1232901LL	LINKAGE ASSEMBLY (USED ON R/S OF BUS)
14		2	A1232901EC	RING, RETAINING
15		2	051232005	NUT, SPANNER
16		2	051232006	NUT, ACORN
17		2	051232401	SPACER, OUTER W/SHIELD ASSEMBLY
18				NOT APPLICABLE
19				NOT APPLICABLE
20				NOT APPLICABLE
21				NOT APPLICABLE
22		2	051232007	GASKET, W/SHIELD WIPER
* 23		1	E1232903CC	ARM ASSEMBLY, WIPER CS
* 23A		1	E1232903EE	ARM ASSEMBLY, WIPER RS
24		1	E1232903CA	ARM, WIPER, CS
25		1	051232509	ARM, PANTOGRAPH CS
* 25A		1	051232508	ARM, PANTOGRAPH RS

* Indicates item not shown on illustration

WIPER KIT, WINDSHIELD



12-4013-1154A.fm
03/01

WIPER KIT, WINDSHIELD

REF	REV	QTY	PART NO	DESCRIPTION
26		1	C1201501CD	LINK, SADDLE
27		2	C1201501CE	SCREW
28		3	A1232904DE	NUT, STOP
29		2	A1232904DC	BOLT
30		2	051232402	BLADE, WIPER (26")
31		1	051232403	VALVE ASSEMBLY, WIPER CONTROL
32		1	051232404	VALVE ASSEMBLY, WIPER CONTROL
33		1	A1232901NB	NUT, HEX (WIPER CONTROL)
34		1	E1232904AE	KNOB, WIPER/WASHER CONTROL (USED W/ITEM 32)
* 35		1	011009580	PUMP, WINDSHIELD WASHER (ELECTRIC OPERATED)
* 35A		1	020502042	VALVE, VACUUM, CONTROL WASHER PUMP
36		2	B1267901HA	NOZZLE ASSEMBLY, TWIN, CS/RS
37		1	B1267901HC	TUBING, WET-ARM (45")
* 38		AR	BS-2611206	TUBING, 7/32" ID VACUUM HOSE
* 39		1	BS-5202305	CLAMP, RUBBER LINED
* 40		1	BS-5500571	PLATE, ALUM. WINDSHIELD WASHER FLUID
* 41		AR	BS-2600171	STRIP, WEATHER
* 42		1	BS-5500571	PLATE, ALUMINIUM WINDSHIELD WASHER FILER

* Indicates item not shown on illustration

AIR SYSTEM
